NAVY TRAINING SYSTEM PLAN

FOR THE

H-1 UPGRADES PROGRAM

(AH-1Z and UH-1Y)

N88-NTSP-A-50-9602A/P

OCTOBER 2001

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

EXECUTIVE SUMMARY

The United States Marine Corps Aviation Plan requires the H-1 Helicopters to operate through Fiscal Year (FY) 30 when a Joint Replacement Aircraft is expected to be available. The AH-1Z and the UH-1Y will be an upgraded, remanufactured version of the current AH-1W and UH-1N Helicopters, with a "zero-time" airframe. A major benefit of the H-1 Upgrade Program (AH-1Z and UH-1Y) is the commonality of approximately 85 percent of the major components between both models, thereby reducing logistics support, maintenance workload, and training requirements. The AH-1Z and the UH-1Y will have common T700-GE-401 Engines, Auxiliary Power Units, gearboxes, drivetrains, and tail booms. Both the AH-1Z and UH-1Y Helicopters will incorporate a modified four-bladed main and tail rotor system. The replacement of the two-bladed rotor system with a common four-bladed rotor system will achieve improved performance, reliability, and maintainability.

The H-1 Upgrade Program (AH-1Z and UH-1Y) is an Acquisition Category 1D program. The System Development and Demonstration Phase of the Defense Acquisition System began in FY97. The Production and Deployment Operations and Support Phase is planned to begin in FY04. Initial Operating Capability for both the AH-1Z and UH-1Y is scheduled for FY06.

The maintenance concept for the AH-1Z and UH-1Y Helicopters is not expected to change and will continue to be performed by Marine Corp personnel at the organizational and intermediate levels. However, a Level of Repair Analysis will be initiated and performed concurrently with the Engineering Manufacturing Development, Integrated Test and Evaluation, and Operational Test and Evaluation. Contractor Logistics Support (CLS) will be used as part of the AH-1Z and UH-1Y aircraft support package. The exact details of the CLS are not currently available.

Based on a comprehensive analysis of the design improvements of AH-1Z and UH-1Y components, a typical Marine Light Attack Helicopter (HMLA) squadron's manpower requirements will not be increased. The HMLA Marine Aviation Logistics Squadron augment manpower requirements will not change.

AH-1W and UH-1N maintenance training is currently provided by Marine Helicopter Training Squadron (HMT)-303 Naval Aviation Maintenance Training Marine Unit (NAMTRA MARUNIT) (formerly FREST), Marine Corps Air Station (MCAS) Camp Pendleton, California. AH-1Z and UH-1Y maintenance training will also be provided by HMT-303 NAMTRA MARUNIT. AH-1Z and UH-1Y aircrew training will be provided by HMT-303 Fleet Readiness Squadron, MCAS Camp Pendleton. Bell Helicopter Textron, Inc., is contracted to provide initial aircrew and maintenance training, and to develop or modify existing AH-1W and UH-1N training courses for follow-on training.

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LIST OF ACRONYMS

ACP	Armament Control Panel
AFC	Airframe Change
AFCS	Automatic Flight Control System
AGO	Aerial Gunner/Observer
AM/FM	Amplitude Modulation/Frequency Modulation
AMTCS	Aviation Maintenance Training Continuum System
AMU	Advanced Memory Unit
ANVIS	Aviators Night Vision Imaging System
APT	Aircrew Procedures Trainer
APU	Auxiliary Power Unit
ASPA	Aircraft Service Period Adjustment
AVT	Avionics Trainer
AWIRT	Aircraft Wiring Interface Remote Terminal
BHTI	Bell Helicopter Textron Incorporated
CAI	Computer-Aided Instruction
CBT	Computer-Based Training
CID	Cockpit Integration Development
CIFF	Common IFF
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief Atlantic Fleet
CINCPACFLT	Commander in Chief Pacific Fleet
CLS	Contractor Logistics Support
CMC	Commandant Marine Corps
CMS	Cockpit Management System
CMT	Composite Maintenance Trainer
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
COMM/NAV	Communication/Navigation
COMSEC	Communication Security
COTS	Commercial Off-The-Shelf
DF	Direction Finder
DoD	Department of Defense
DT&E	Developmental Test and Evaluation
EAT	Electrical/Armament Trainer

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

LIST OF ACRONYMS

ECM	Electronic Countermeasures
EGI	Embedded GPS and Inertial Navigation
EMD	Engineering and Manufacturing Development
EMI	Electromagnetic Interference
ERRT	Engine Remove/Replace Trainer
ESM	Electronic System Countermeasures
EW	Electronic Warfare
FIR	Flight Incident Recorder
FDR	Flight Data Recorder
FLIR	Forward Looking Infrared
FMS	Foreign Military Sales
FOC	Full Operational Capability
FOT&E	Follow-on Operational Test and Evaluation
FREST	Fleet Replacement Enlisted Skills Training
FRS	Fleet Readiness Squadron
FY	Fiscal Year
GPS	Global Positioning System
HMLA	Marine Light Attack Helicopter
HMT	Marine Helicopter Training Squadron
HMX	Marine Helicopter Squadron
HOD	Head-Out Display
HSS	Helmet Sight Subsystem
HUD	Head-Up Display
HUMS	Health and Monitoring System
IAS	Integrated Avionics Suites
ICP	Integrated Cockpit
ICU	Interface Control Unit
ICW	Interactive Courseware
IDAS	Improved Defense Armament Subsystem
IFF	Identification Friend or Foe
IHDSS	Integrated Helmet Display and Sight System
IMA	Intermediate Maintenance Activity
IMD	Integrated Mechanical Diagnostics
IOC	Initial Operational Capability

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

LIST OF ACRONYMS

IOS	Instructor Operator Station
IPT	Integrated Product Team
IR	Infrared
IT&E	Integrated Test and Evaluation
JTF	Joint Task Force
kHz	kilohertz
LDS	Laser Detecting Set
LFD	Limited Functional Display
LSAR	Logistics Support Analysis Requirements
MAGTF	Marine Air-Ground Task Force
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
MCO	Marine Corps Order
MFD	Multi-Functional Display
MOS	Military Occupational Specialty
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
MWS	Missile Warning Set
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAMTRA MARUNIT	Naval Aviation Maintenance Training Marine Unit
NAMTRAU	Naval Air Maintenance Training Unit
NAS	Naval Air Station
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIRSYSCOM	Naval Air Systems Command
NAVPERSCOM	Naval Personnel Command
NAVRWAIRTESTRON	Naval Rotary Wing Aircraft Test Squadron
NTIS	Navigational Thermal Imaging System
NTP	Navy Training Plan
NTS	Night Targeting System

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

LIST OF ACRONYMS

NTSP	Navy Training System Plan
NVD	Night Vision Device
NVG	Night Vision Goggles
OA	Operational Assessment
OPNAV	Office of Naval Operations
OPNAVINST	Office of Naval Operations Instruction
OPO	OPNAV Principal Official
ORD	Operational Requirement Document
OT&E	Operational Test and Evaluation
PGM	Precision Guided Missiles
PMA	Program Manager, Air
POE	Projected Operational Environment
PTT	Part Task Trainer
RADALT	Radar Altimeter
RFT	Ready For Training
ROC	Required Operational Capabilities
RSDS	Radar Signal Detection Set
RSS	Reflex Sighting System
RT	Receiver-Transmitter
SATCOM	Satellite Communication
SCAS	Stability Control Augmentation System
SE	Support Equipment
SEIPT	Support Equipment Integrated Product Team
STAR SAFIRE	Staring Array Shipboard/Airborne Forward Looking Infrared Equipment
TACAN	Tactical Air Navigation
TAMMAC	Tactical Moving Map Capability
TBD	To Be Determined
TD	Training Device
T/O	Table of Organization
TOW	Tube Launched Optically-Tracked Wire-Guided
T&R	Training and Readiness
TSS	Target Sight System

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

LIST OF ACRONYMS

TTE	Technical Training Equipment
UHF	Ultra High Frequency
USMC	United States Marine Corps
VHF	Very High Frequency
VMAT	Fixed Wing Marine Attack Training Squadron
VMF	Variable Message Format
VX	Air Flight Test and Evaluation Squadron
WRA	Weapon Replaceable Assembly
WST	Weapon System Trainer

H-1 UPGRADES PROGRAM (AH-1Z and UH-1Y)

PREFACE

This Proposed Navy Training System Plan (NTSP) has been developed to update the Draft H-1 Upgrades Program Navy Training Plan A-50-9602/D, dated May 2001. This NTSP provides the latest information about the AH-1W and UH-1N upgrade to the AH-1Z and UH-1Y models, including training, manpower, Training Devices (TD), aircraft and TD delivery and modification schedules, and points of contact. This document complies with guidelines in the Navy Training Requirements Documentation Manual, Office of Naval Operations (OPNAV) Publication P-751-1-9-97.

Two variations of the H-1N are currently in use. The UH-1 Helicopter is used by the Marine Corps as a tactical and assault platform and the HH-1 is used by the Navy as a search and rescue vehicle.

The HH-1 Helicopter will not receive the four-blade rotor system or combat modifications; therefore, this NTSP primarily addresses the USMC H-1 Upgrades Program (AH-1Z and UH-1Y). However, the HH-1 pilot and maintenance training is provided by HMT-303 Naval Aviation Maintenance Training Marine Unit (NAMTRA MARUNIT) and HMT-303 Fleet Readiness Squadron (FRS) located at Marine Corps Air Station (MCAS) Camp Pendleton, California. Naval Air Maintenance Training Group Detachment 1030, in conjunction with the NAMTRA MARUNIT and the FRS, will be the H-1 Helicopter Model Manager and training site for inter-service training at MCAS Camp Pendleton.

HMT-303 Table of Organization (T/O) 8590 changes have been incorporated to reflect the newly developed Naval Aviation Maintenance Training Marine Unit (NAMTRA MARUNIT), MCAS Camp Pendleton, T/O 8596. In Fiscal Year (FY) 02, HMT-303 FREST will be renamed NAMTRA MARUNIT and deleted from T/O 8590.

This NTSP also incorporates comments of a general nature received from:

- Deputy Program Manager Logistics, Program Manager, Air (PMA) 272 (3.1)
- Support Equipment Project Officer, Naval Air Weapons Center, Aircraft Division (NAWCAD) (1.1X7.3L)
- Marine Helicopter Training Squadron (HMT)-303 Aviation Ground Training, Officer In Charge (OIC)

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. **Nomenclature-Title-Acronym.** H-1 Upgrades Program (AH-1Z and UH-1Y)

2. **Program Element.** 0603266N

B. SECURITY CLASSIFICATION

1. **System Characteristics**..... Unclassified
2. **Capabilities**..... Unclassified
3. **Functions** ..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N780F4)

OPO Resource Sponsor..... CNO (N785D1)

Functional Mission Sponsor..... CNO (N789H)

Marine Corps Program Sponsor..... CMC (APW-53)

Developing Agency..... NAVAIRSYSCOM (PMA276)

Training Agency .....CINCLANTFLT (N721)
CINCPACFLT (N70)
CNET (ETE-32)
MCCDC (C473)

Training Support Agency..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel Mission Sponsor ..... CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)
CMC (ASM, ASL)

Director of Naval Training..... CNO (N795)

Manpower Structure Management ..... MCCDC (C53)
CMC (ASM-1)

D. SYSTEM DESCRIPTION

1. Operational Uses. The H-1 Upgrades Program (AH-1Z and UH-1N) will incorporate modern designs into the existing fleet of AH-1W and UH-1N Helicopters, which will convert them to 180 AH-1Z and 100 UH-1Y Helicopters, respectively. The H-1 Helicopter upgrades include: 10,000 flight hour airframes, new completely integrated glass cockpits, and a highly maneuverable and reliable four-bladed rotor system with an upgraded drivetrain common to both models. The USMC Aviation Plan requires the H-1 Helicopter to operate through at least FY30 when a Joint Replacement Aircraft is expected to be available. To be operationally effective through FY30, both helicopters require performance improvements. The H-1 Helicopter upgrade will satisfy this requirement. An additional benefit of the H-1 Upgrades Program is the commonality of approximately 85 percent of the major components between the two models (AH-1Z and UH-1N). The upgraded and re-designated AH-1Z and UH-1Y will not change the operational use of either helicopter. Both helicopters will realize dramatic performance improvements over the existing platforms to include: increased range, payload, speed, crash survivability, ballistic tolerance, and high altitude, hot day performance. The AH-1W and the UH-1N have, and the AH-1Z and UH-1Y will have the following missions:

a. AH-1Z. The AH-1W is and the AH-1Z will be an armed tactical helicopter capable of operating from ships and remote bases. The AH-1W primary mission is to provide armed reconnaissance, combat support, and anti-armor, anti-helicopter, and anti-fixed wing defense. This includes threats from surface-to-air missiles, anti-aircraft artillery, and anti-helicopter mines. The AH-1Z will fulfill the same mission and also provide landing zone fire suppression, forward and rear area fire support, and search and rescue augmentation. The AH-1Z will also be able to control air, artillery, mortar, and naval gunfire support, while capable of operating at night and in adverse weather conditions.

b. UH-1Y. The primary mission of the UH-1N is and the UH-1Y will be to provide airborne control and coordination for assault support operations, aeromedical evacuation of casualties, and augmented search and rescue assets. The UH-1Y will provide combat assault and assault support for evacuation and other maritime special operations; control coordination and terminal guidance for supporting arms to include close air support, artillery, and naval gunfire; armed escort for assault support operations; fire support; and security for forward and rear area forces. The UH-1Y will also be capable of operating at night and in adverse weather conditions.

2. Foreign Military Sales. Other United States military services and foreign governments with potential interest in the AH-1Z and UH-1Y Helicopters include:

- U.S. Air Force - Joint Interest
- U.S. Navy - Joint Interest
- Australia
- Taiwan
- Turkey
- Spain

- Sweden

The Department of Defense (DoD) intends to pursue an aggressive Foreign Military Sales (FMS) program. For information concerning FMS contact PMA276, the H-1 Upgrades Program (AH-1Z and UH-1Y) Office.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. The H-1 Upgrades Program (AH-1Z and UH-1Y) Engineering and Manufacturing Development (EMD) contract provides for the establishment of a Flight Test Integrated Product Team (IPT). The IPT will integrate contractor and government testing at two principal test sites, Bell Helicopter Textron, Inc. (BHTI) at Fort Worth, Texas, and Naval Rotary Wing Aircraft Test Squadron (NAVRWAIRTESTRON), Naval Air Station (NAS) Patuxent River, Maryland. To eliminate duplication and reduce schedules, the Integrated Test and Evaluation (IT&E) phases include Developmental Test and Evaluation. NAVRWAIRTESTRON has provided a detachment of Test Pilots and Flight Test Engineers for the IT&E and EMD test phase. IT&E was started in first quarter FY01 and will be completed in third quarter FY03.

The Developmental Testing Activity, NAVRWAIRTESTRON, has two UH-1N and two AH-1W Helicopters assigned. The Operational Testing Activities are Air Flight Test and Evaluation Squadron Nine (VX)-9, Naval Air Warfare Center Weapons Division China Lake, California, with two AH-1W Helicopters, and Marine Helicopter Squadron One (HMX)-1, with no H-1 Helicopters assigned. There are no AH-1W and UH-1N maintenance billets currently assigned at VX-9.

An Operational Assessment (OA) will be conducted over a one-month period during IT&E. During OA, maintenance will be performed by the contractor and monitored by VX-9 and HMX-1 maintenance personnel. Following the IT&E and EMD test phase, Operational Test and Evaluation (OT&E) will begin, and the direct participation of the contractor in the Flight Test IPT will terminate. OT&E is scheduled to begin in fourth quarter FY03. The primary site for OT&E will be NAS Patuxent River. During OT&E, the AH-1Z and UH-1Y Helicopters will be operated and maintained by the H-1 Operational Test Team, comprised of personnel from VX-9, HMX-1, and fleet augmentation personnel. OT&E for both the AH-1Z and UH-1Y Helicopters will be conducted at the same time. Follow-on Operational Test and Evaluation (FOT&E) is scheduled to begin in third quarter FY04. FOT&E events, scope of testing, and scenarios will be determined in the future.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED

1. AH-1Z and UH-1Y Common Equipment Additions and Modifications. The AH-1Z and UH-1Y system upgrades consists of improved ergonomic design, communications, navigation, night and adverse weather capability, performance, weapons, and survivability. Identical components include, but are not limited to:

- T700-GE-401/401C Engines

- Main, Tail Rotor, and Intermediate Gearboxes
- Main and Tail Rotor Systems, Composite Four-Bladed Rotor System (Main and Tail Rotors), Semi-Automatic Blade Fold System
- Auxiliary Power Unit (APU) and Starter
- Tailboom Empennage
- Integrated Avionics Suites (IAS)
- Dual Redundant Mission and Weapons Computers (including common software load)
- 8” x 6” Color Multi-Function Cockpit Displays
- Hands-On Collective and Stick
- Tactical Moving Map Capability (TAMMAC) Navy Standard Digital Moving Map Set
- Digital Communications System DCS-2000 with Embedded Satellite Communication (SATCOM) Capability
- Embedded Global Positioning System (GPS) and Inertial Navigation (EGI) and AN/APX-100 Identification Friend or Foe (IFF)
- Four-Axis Automatic Flight Control System (AFCS)
- Common, Integrated Electronic Warfare (EW) Suites
- Integrated Wiring System
- Integrated Mechanical Diagnostics (IMD) with Rotor Track and Vibration Capability
- Ground-Based Mission Planning
- Crashworthy Crew Seats
- New Hydraulic Components
- Integrated Helmet Display and Sight System (IHDSS)

2. Aircraft Equipment Comparison Chart. The following chart compares the current configuration of the AH-1W and UH-1N to the Production Configuration of the AH-1Z and UH-1Y Helicopters.

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1W	AH-1Z	UH-1N	UH-1Y
Engines	T700-GE-401	T700-GE-401	T400-CP-400	T700-GE-401C

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1W	AH-1Z	UH-1N	UH-1Y
Communications:				
Ultra High Frequency (UHF) Very High Frequency (VHF) Single Channel Ground and Airborne Radio System	AN/ARC-210(V) Receiver Transmitter (RT)-1556B	AN/ARC-210(V) RT-1824C	AN/ARC-210(V) RT-1556B	AN/ARC-210(V) RT-1824C
SATCOM	–	–	AN/ARC-210(V) RT-1556B/C - 11898	AN/ARC-210(V) RT-1824C
Secure Voice	TSEC/KY-58	Embedded Communication Security (COMSEC)	TSEC/KY-58	Embedded COMSEC
IFF Transponder	RT-1558/APX-100	Common IFF (CIFF)	AN/APX-72	CIFF
Secure IFF	KIT-1C/TSEC	Embedded Mode 4; Mode S	KIT-1C/TSEC	Embedded Mode 4; Mode S
Navigation:				
Direction Finder (DF)	DF-301E	NA	AN/ARA-50	NA
Inertial Navigation System	AN/ASN-172(V)3	AN/ASN-172(V)3	–	AN/ASN-172(V)3
GPS	AN/ASN-172(V)3	AN/ASN-172(V)3	AN/ASN-163	AN/ASN-172(V)3
Radar Altimeter (RADALT)	AN/APN-194(V)	Embedded RADALT in EGI	AN/APN-171(V)	Embedded RADALT in EGI
Mass Data Storage	–	Advanced Memory Unit (AMU)	–	AMU

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1W	AH-1Z	UH-1N	UH-1Y
Digital Mapping	–	TAMMAC	–	TAMMAC
Flight Instruments:				
Vertical Gyro	CN-1314	Standby Attitude Sensor	MD-1	Standby Attitude Sensor
Encoder Altimeter	AAU-32/A1	Aircraft Wiring Interface Remote Terminal (AWIRT)	AAU-31/A (Pilot); AAU-21/A (Co-pilot)	AWIRT
Aircraft Survivability Equipment:				
Electronic System Countermeasures (ESM) Dispensing System	AN/ALE-39	AN/ALE-47	AN/ALE-39	AN/ALE-47
ESM and Radar Signal Detection Set (RSDS)	AN/APR-39A(V)2	AN/APR-39B(V)2 Integrated Cockpit (ICP) Modification (See Note)	AN/APR-39A(V)2	AN/APR-39B(V)2 ICP Modification (See Note)
ESM and Laser Detecting Set (LDS)	AN/AVR-2	Embedded in AN/AAR-47(V)2	AN/AVR-2	Embedded in AN/AAR-47(V)2
ESM Infrared (IR) Jammer	AN/ALQ-144	To Be Determined (TBD)	AN/ALQ-144	TBD
ESM and Missile Warning Set (MWS)	AN/AAR-47	AN/AAR-47(V)2	AN/AAR-47	AN/AAR-47(V)2

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1W	AH-1Z	UH-1N	UH-1Y
Forward Looking Infrared (FLIR) System	Night Targeting System (NTS)	Target Sight System (TSS)	Navigational Thermal Imaging System (NTIS) AN/AAQ-22A SAFIRE or AN/AAQ-22C STAR SAFIRE	NTIS AN/AAQ-22C STAR SAFIRE or Upgraded NTIS with Laser Designator
Display and Control:				
Head-Up Display (HUD)	Daytime: HUD Nighttime: HUD plus Aviators Night Vision Imaging System (ANVIS) HUD	GEC HMD 229-061955	AN/AVS-7 ANVIS HUD	P3I TBD, possibly the Improved HUD
Mission Computer	–	Litton 8920570	–	Litton 8920570
Multi-Functional Display (MFD)	MFD above Telescopic Sight Unit NTS/Cockpit Canopy Modification	Collins 998-5385-001	–	Collins 998-5385-001
Limited Functional Display (LFD)	–	Collins 998-3142-001	–	Collins 998-3142-001
Miscellaneous:				
Analog Digital Converter	Interface Control Unit (ICU) -800 CP-1913 ICU-800-1 PC-1914	AWIRT	ICU-800	AWIRT
Digital Data Loader	AN/ASQ-215	AMU	AN/ASQ-215	AMU
Flight Data Recorder (FDR)	_	AMU	–	AMU

AIRCRAFT SYSTEMS AND EQUIPMENT	AH-1W	AH-1Z	UH-1N	UH-1Y
Maintenance Data Recorder	–	IMD and Health and Monitoring System (IMD/HUMS)	–	IMD/HUMS
Video Recorder	Photosonic VCR Sekia VCR	TEAC VCR V-80AB-F-NTSC	BR-5405U or V-80AB-F-NTSC (TEAC VCR)	TEAC VCR V-80AB-F-NTSC
Weapons Control:				
Armament Control	Armament Control Panel (ACP)	MFD	ACP A/A49E-11 Improved Defense Armament Subsystem (IDAS)	ACP A/A49E-11 IDAS
Sight System	Helmet Sight Subsystem (HSS)	IHDSS	CA-513 Reflex Sighting System (RSS)	CA-513 RSS
HELLFIRE Missile System	AGM-114 HELLFIRE Missile (with M272 Launcher)	AGM-114 II HELLFIRE Missile (with M299 Launcher)	–	–
Stores Management System	Navy Armament Rocket Control And Delivery System and TOW/HELLFIRE	Smith Industries 173949/80594	–	–

Note: Only 77 AH-1Ws are being modified with Airframe Change (AFC)-230, EW Suite.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The AH-1Z and UH-1Y will be remanufactured concurrently by BHTI. The goal of the USMC H-1 Upgrades Program (AH-1Z and UH-1Y) is to achieve a platform that meets the growing needs of the Marine Corps at an affordable cost. The AH-1Z and UH-1Y will incorporate a common engine, APU, four-bladed main and tail rotor

system, transmission, drivetrain, rotor drive, and tail boom. The purpose of these modifications is to achieve commonality in models, thereby reducing logistics support, maintenance workload, and training requirements. The replacement of the two-bladed rotor system with a common four-bladed rotor system will achieve improved performance, reliability, and maintainability. The addition of an IR suppresser to the helicopters will improve survivability.

a. AH-1Z. The AH-1Z upgrades will improve helicopter performance, survivability, availability, and maintainability. Further, the AH-1Z will reduce Pilot workload and fully integrate state-of-the-art weapons, communication, and navigation systems. The AH-1Z will also include the Cockpit Integration Development (CID). CID will result in near mirror image crew stations for the AH-1Z, simplifying operator and maintainer training. CID will also integrate communications, fire control, navigation, and NTS. The AH-1Z will incorporate a new TSS that uses a third generation FLIR detector and an automatic bore sight. The automatic bore sight will be incorporated into the EGI system, providing precise weapons delivery.

Other AH-1Z unique components include: HELLFIRE II Electro-Optical Counter Countermeasure (alternate laser coding). The AH-1Z will improve and upgrade engine, drivetrain, rotor system, and gearbox components, providing the following performance capabilities: a payload sufficient to enable a wide variety of ordnance and external fuel configurations and an attack payload of 2,500 pounds (3,500 pounds is desired). The AH-1Z maneuverability and agility will be sufficient to enhance obstacle avoidance and defensive maneuvers against threat systems while operating in nap of the Earth and Terrain Flight. It will have a minimum maneuverability and agility "G" range of –0.5 to +2.5 with an attack payload. AH-1Z airspeed will be sufficient to maintain airspeed compatibility with existing Marine Corps Assault Support Helicopter forces. A cruise speed with an attack to 140 knots and a dash speed of 160 knots are an objective. The AH-1Z will also have full shipboard compatibility to include a blade-fold system.

The AH-1Z acquisition requirements and improvements also include:

(1) Ergonomic and Safety Cockpit Design. The ergonomic and safety cockpit design will:

- Enhance situational awareness through human engineering cockpit design in the consolidation and placement of multiple control panels for communication, navigation, mission support, and weapon systems management.
- Fully integrate mission management avionics to include communication, navigation, flight systems, EW systems, tactical targeting, and the weapons system. The AH-1Z will have an onboard data processing capability, digital target data system, fire control, and weapons management system.
- Ensure a fully integrated, Night Vision Device (NVD)-compatible, glass cockpit to enhance situational awareness. The AH-1Z cockpit will be capable of displaying consolidated information from weapon, navigation, and communication systems on MFD screens.

- Integrate navigational and targeting FLIR imagery capabilities.
- Display critical mission and system performance information via HUD/Head-Out Display (HOD) systems.
- Enhance the coupled approach, hover, and wave-off capability to enable the helicopter to perform all missions in day, night, and adverse weather conditions.
- Integrate a ground proximity and low altitude warning system that is capable of vertical and forward looking obstacle avoidance that integrates airspeed, rate of descent, power requirements, and altitude information for a HUD/HOD. The system will be compatible with NVDs and FLIR displays for terrain flight profiles during day or night operations and in adverse weather conditions.
- Incorporate a Flight Incident Recorder (FIR) and FDR.
- Incorporate an IMD System.

(2) Communication. The AH-1Z communication systems will include:

- UHF, VHF, Amplitude Modulation and Frequency Modulation (AM/FM), and SATCOM using a DoD established joint-use radio.
- Aircraft intercom.
- Secure data communications circuits. Circuits will be compliant with the joint staff directive to be demand assigned multiple access capable and five-kilohertz (kHz) compatible.
- Fully integrated, secure voice and data burst communications capable of processing targeting information in an Electronic Countermeasures (ECM) environment.
- Variable Message Format (VMF) digital modem with software and a joint interoperable datalink circuit capable of transmitting, receiving, and displaying digital information simultaneously from aircraft or ground units of the Marine Air-Ground Task Force (MAGTF) and Joint Task Force (JTF).

(3) Navigation. The AH-1Z navigation systems will include:

- A pre-programmable, fully integrated, long-range, self-contained precision navigation system.
- A mission planning system with the following capabilities: pre-mission aircraft data loading, manual in-flight updates to navigation and mission plan, a TAMMAC display with depiction of threat systems along intended flight profiles, and information updates via data burst transmissions to accommodate digital target data systems.

(4) Night and Adverse Weather Capability. The AH-1Z night and adverse weather capability will include:

- A lightweight, navigational FLIR tactical day and NTS with Laser Range Finder and designator, and an enhanced night and adverse weather Pilot assist capability. HUD/HOD helmet mounted display capability is desired.
- NVD-compatible cockpit, external formation, blade tip, and anti-collision lighting.

(5) Weapons. The AH-1Z will be capable of offensive air support throughout its full mission spectrum. The upgraded gun system and fire control enhancements will improve weapon reliability, maintainability, and effectiveness. Weapon system improvements include:

- Increased wing stores stations (from the current configuration of four) to six wing stations, four of which are universal.
- The capability to carry 12 Precision Guided Missiles (PGM) (16 PGMs desired).
- An upgraded gun system capable of a low rate of fire of 600 to 750 rounds per minute, and a high rate of fire of 1,200 to 1,500 rounds per minute. Increased onboard ammunition storage capability of at least 1,000 rounds is desired.
- NVD-FLIR compatible pointing system for the Pilot and Gunner to calculate "point-of-aim" and "point-of-impact" with HSS.

(6) Survivability. The AH-1Z will provide improved airframe ballistic tolerance, aircrew protection, and reduced vulnerability. Survivability improvements include:

- Airframe ballistic tolerance against 12.7-millimeter (mm) artillery, with an improved ballistic tolerance for flight critical systems.
- Integrated active and passive countermeasures for an autonomous self-protection capability, to include cost-effective low observable radar, IR, and acoustic features.
- Ensure aircrew protection from advanced, directed energy weapon technology through the combination of crew equipment and hardening of flight critical sensors and mission support systems.
- Incorporate stroking, crashworthy Pilot seats. A crashworthy internal fuel system is required; a crashworthy internal and external fuel system is desired.
- Incorporate landing gear improvements to sustain maximum gross weight shipboard and land-based operations, while maximizing gross weight for towing operations.

(7) Electronic Countermeasures. The ECM will be performed in the most practical combination for signature management. The AH-1Z must provide an integrated EW suite, free of Electromagnetic Interference (EMI) with all systems operating, to include the following:

- Missile warning receiver.
- Increased capacity to carry expendables.

- Radar/plume detector and laser warning.
- Receivers capable of integrated operations with expendables in a dense signal environment.
- Missile approach warning system with selectable and automatic capabilities.
- Reduced IR and acoustic signature.
- Reduced vulnerability and susceptibility to radar threats.

b. UH-1Y. The UH-1N upgrade to the UH-1Y will improve safety, performance, survivability, availability, and maintainability. Further, the UH-1Y will reduce Pilot workload and fully integrate state-of-the-art avionics, communication, navigation, and defensive weapons systems. The UH-1Y will include the upgraded version of the NTIS, BRITE STAR, and the AN/AVS-7 Night Vision Goggles (NVG)-HUD carried forward from the UH-1N. The BRITE STAR navigation FLIR will also incorporate a third generation FLIR detector.

The UH-1Y will improve and upgrade engine, drivetrain, rotor system, and gearbox components as required to provide the following performance capabilities: a payload sufficient to fulfill the wide range of utility missions and an utility payload of 2,800 pounds (4,500 pounds is desired). The UH-1Y maneuverability and agility will be sufficient to enhance obstacle avoidance and defensive maneuvers against threat systems while operating in nap of the Earth and Terrain Flight. It will have a minimum maneuverability and agility "G" range of –0.5 to +2.5 with a utility payload. The airspeed will be sufficient to maintain airspeed compatibility with existing Marine Corps Assault Support Helicopter forces; a cruise speed in a slick configuration of 140 knots is required (165 knots desired). The UH-1Y cargo doors must be structurally rated to withstand the normal operating airspeed limitations of the helicopter in either an open or closed configuration. The UH-1Y will also have full shipboard compatibility to include a blade-fold system.

UH-1Y upgrade acquisition requirements and improvements include:

(1) Ergonomic and Safety Cockpit Design. The UH-1Y ergonomic and safety cockpit design will:

- Enhance situational awareness through human engineering cockpit design in the consolidation and placement of multiple control panels for communication, navigation, mission support, and weapon systems management.
- Fully integrate mission management avionics, to include communication, navigation, flight systems, EW systems, tactical targeting, and weapon systems.
- Integrate an onboard digital target data system, fire control, data processing capability, and weapons management system.
- Incorporate a fully integrated, NVD-compatible cockpit capable of displaying consolidated information from navigation, communication, and defensive weapon systems on MFD screens.

- Integrate navigational and targeting FLIR imagery capabilities.
- Display critical mission and system performance information via HUD/HOD systems.
- Enhance the coupled approach, hover, and wave-off capability to enable the helicopter to perform all missions in day, night, and adverse weather conditions.
- Integrate a ground proximity and low altitude warning system and altitude information for a HUD/HOD.
- Integrate a system that is NVD and FLIR compatible.
- Incorporate a FIR and FDR.
- Incorporate an IMD/HUMS System.

(2) Communication. The UH-1Y communication systems will include:

- UHF, VHF, AM/FM, and SATCOM using a DoD established joint-use radio.
- Aircraft intercom.
- Secure data communications circuits. Circuits must be compliant with the joint staff directive to be demand assigned multiple access capable and five-kHz compatible.
- Fully integrated, long-range secure voice and data burst communications, including targeting information in an ECM environment.
- VMF digital modem with software and a joint interoperable datalink circuit capable of transmitting, receiving, and displaying digital information simultaneously from aircraft or ground units of the MAGTF and JTFs.

(3) Navigation. The UH-1Y navigation systems include:

- A pre-programmable, fully integrated, long-range, self-contained precision navigation system.
- A mission planning system with the following capabilities: pre-mission aircraft data loading, manual in-flight updates to navigation and mission plans, a digital moving map situational display, and information updates via data burst transmissions to accommodate digital target data systems.

(4) Night and Adverse Weather Capability. The UH-1Y night and adverse weather capability will include:

- An integrated, lightweight, navigational FLIR with enhanced night and adverse weather Pilot assist capability.
- A tactical day and night sensor system.
- A laser designator/Range Finder and NVD-visible laser pointer.
- NVD-compatible cockpit lighting and external formation, blade tip, and anti-collision lighting.

- A full HUD/HOD helmet mounted display capability is desired.

(5) Weapons. The UH-1Y will be capable of self-protection throughout its full mission spectrum. The UH-1Y weapon systems improvements include:

- An NVD-compatible gun sighting system useable by Pilots, Crew Chiefs, and Aerial Gunner/Observers (AGO) that will increase crew served weapon accuracy and effectiveness.
- A light (7.62 mm) gun system with a minimum rate of fire of 1,500 rounds per minute and a heavy (.50 caliber) pintle-mounted gun system. Total weight of the gun system will not exceed 600 pounds.
- Provide "point-of-aim" and "point-of-impact" accuracy without the aid of tracer rounds.
- An external stores system capable of carrying fuel tanks, 2.75-inch rocket pods, and crew served weapons. Two hard mounts are required and a follow-on universal mount capable of accepting weapons or fuel is desired.

(6) Survivability. The UH-1Y will provide improved airframe ballistic tolerance, aircrew protection, and reduced vulnerability. Survivability improvements include:

- Ballistic tolerance against 12.7 mm artillery, helicopter survivability to standard threats up to 23-mm shells, and improved ballistic tolerance for flight critical systems.
- Integrated active and passive countermeasures for an autonomous self-protection capability, to include cost-effective low observable radar, IR, and acoustic features.
- Aircrew protection from advanced, directed energy weapon technology through the combination of crew equipment and hardening of flight critical sensors and mission support systems.
- Incorporate stroking, crashworthy Pilot seats. A crashworthy internal fuel system is required; a crashworthy internal and external fuel system is desired.
- Incorporate landing gear improvements to sustain maximum gross weight shipboard and land-based operations, while maximizing gross weight for towing operations.

(7) Electronic Countermeasures. ECM will be performed in the most practical combination for signature management. The UH-1Y will provide an integrated EW suite, free of EMI with all systems operating, to include:

- Missile warning receiver.
- Increased capacity to carry expendables.
- Radar/plume detector and laser warning.
- Receivers capable of integrated operations with expendables in a dense signal environment.
- Missile approach warning system with selectable and automatic capabilities.

- Reduced IR and acoustic signature.
- Reduced vulnerability and susceptibility to radar threats.

(8) Landing Gear and Airframe. The skid type landing gear will be upgraded to withstand a 12-foot per second vertical sink rate. The tail boom will be modified with a more effective elevator and will be common for both helicopters. The UH-1Y airframe length will be increased approximately 10 to 15 inches to accommodate avionics equipment.

2. Physical Description

AH-1W and AH-1Z PHYSICAL COMPARISON		
PARAMETERS	**AH-1W**	**AH-1Z**
Empty Weight (pounds)	10,920	12,200
Maximum Gross Weight (pounds)	14,750	18,500
Maximum Useful Load (pounds)	3,828	6,300
Internal Fuel (pounds)	2,086	2,766
Maximum Continuous Power (knots)	129	146
Maximum Range (nautical miles) *	280	370
Endurance Hours (hours) *	2.8	3.5
Maximum Gs	+2.5	+3.0
Minimum Gs	+0.5	-0.5

* 20-minute reserve fuel

UH-1N and UH-1Y PHYSICAL COMPARISON		
PARAMETERS	**UH-1N**	**UH-1Y**
Empty Weight (pounds)	7,345	11,400
Maximum Gross Weight (pounds)	10,500	18,500
Maximum Useful Load (pounds.)	3,155	7,100
Internal Fuel (pounds)	1,381	2,584
Maximum Continuous Power (knots)	110	148
Maximum Range (nautical miles) *	230	350
Endurance Hours (hours) *	2.18	3.2
Maximum Gs	+2.4	+3.0

UH-1N and UH-1Y PHYSICAL COMPARISON		
PARAMETERS	**UH-1N**	**UH-1Y**
Minimum Gs	+0.5	-0.5

* 20-minute reserve fuel

3. New Development Introduction. The new equipment will be introduced through the USMC H-1 Upgrades Program (AH-1Z and UH-1Y). The program entails remanufacturing the USMC fleet of AH-1W and UH-1N Helicopters to an advanced configuration featuring common engines and flight dynamics. These helicopters will have "zero-time" airframes remanufactured with the latest technology. BHTI will use cost as an independent variable, commercial practices, Commercial Off-The-Shelf Items (COTS), and Non-Developmental Items. The installation of the new equipment will be performed at the contractor's facilities in Fort Worth, Texas.

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. Marine Corps Pilots in Marine Light Attack Helicopter (HMLA) squadrons fly the AH-1W and UH-1N. Eighteen AH-1Ws and nine UH-1Ns per squadron are assigned, and are deployed in detachments consisting of six AH-1Ws and three UH-1Ns. The AH-1Z and UH-1Y will have the same operational concept as the AH-1W and UH-1N Helicopters. The AH-1W and UH-1N share the same Military Occupational Specialty (MOS) designations for all billets except aircrew. An AH-1W Pilot is designated as MOS 7565, while a UH-1N Pilot is designated as MOS 7563. The UH-1N also employs a Crew Chief (MOS 6174) and an AGO (MOS 6174 AGO qualified) as enlisted aircrew. The AH-1W does not have a requirement for these positions.

2. Maintenance Concept. General direction and guidance concerning the maintenance concept for the AH-1Z and the UH-1Y Helicopters is provided by the Naval Aviation Maintenance Program (NAMP), OPNAV Instruction (OPNAVINST) 4790.2 series. The NAMP prescribes the concept of three levels of maintenance: organizational, intermediate, and depot. The AH-1Z and UH-1Y Helicopter maintenance concept will be based on these three levels of maintenance. A Level of Repair Analysis will be initiated and performed concurrently with the EMD, IT&E, and OT&E. Contractor Logistics Support (CLS) will be used as part of the AH-1Z and UH-1Y aircraft support package. The exact details of the CLS are not currently available. The program will be maintained completely by the contractor during EMD. A decision as to the extent of CLS will be required to determine the level of support during OT&E and for the future.

a. Organizational. AH-1Z and UH-1Y organizational level maintenance is performed by the operating unit on a day-to-day basis in support of its own operations. These actions encompass inspections, servicing, handling, removal and replacement of Weapon Replaceable Assembly (WRA) or major aircraft components, and on-equipment corrective maintenance. Organizational level maintenance is performed by military personnel from various aviation maintenance ratings identified below in paragraph H, Student Profiles.

(1) Preventive Maintenance. Preventive maintenance is the care and servicing needed to maintain aircraft equipment, Support Equipment (SE), and facilities in satisfactory operating condition by providing for systematic inspection, detection, and correction of maintenance failures either before they occur or before they develop into major defects. Preventive maintenance on the AH-1Z and UH-1Y will be conducted at specific intervals per established procedures outlined by Maintenance Requirement Card decks.

(2) Corrective Maintenance. Corrective maintenance is the set of actions needed to maintain aircraft equipment and SE to improve, change, or restore their capability to perform specific missions or functions by replacement, removal, addition, alteration, or repair of parts, equipment, or aircraft without particular regard to flying hours, operating hours, calendar days, or operating periods. Corrective maintenance includes, but is not limited to, modification, repair, and unscheduled inspection, replacement, or testing. The AH-1Z and UH-1Y corrective maintenance procedures will encompass aircraft repair and the replacement of WRA determined as faulty by use of built-in test or procedural troubleshooting.

b. Intermediate. Intermediate level maintenance in support of the AH-1Z and UH-1Y Helicopters will be performed by Marine Aviation Logistics Squadrons (MALS) designated for AH-1Z and UH-1Y support of Marine Aircraft Groups. Maintenance at the intermediate level is conducted per specific instructions contained in the maintenance instruction manuals for each aircraft system. Intermediate maintenance consists of repair, test, and calibration of WRAs, Shop Replacement Assemblies, and SE. The MALS will also perform first degree repairs on the T700-GE-401/401C Engines.

c. Depot. Depot level maintenance consists of major overhaul or complete rebuilding, manufacture, or modification of parts, assemblies, subassemblies, and end items that are beyond the capabilities of Intermediate Maintenance Activities (IMA). The primary depot for AH-1Z and UH-1Y Helicopters will be the Naval Aviation Depot Cherry Point, North Carolina.

d. Interim Maintenance. Maintenance in support of IT&E and EMD will be the responsibility of the contractor. During OT&E, organizational maintenance will be performed by contractor-trained fleet Marine Corps personnel and intermediate maintenance will be provided by the contractor. The contractor will provide Engineering and Technical Services until the Material Support Date (MSD). The MSD is estimated for fourth quarter FY09.

e. Life Cycle Maintenance Plan. The AH-1W and UH-1N Helicopters are on a five-year Standard Depot Level Maintenance cycle. At the end of a 60-month service period, an

Aircraft Service Period Adjustment (ASPA) inspection is performed. Aircraft found to be in satisfactory material condition will be granted a 12-month period extension, whereupon another ASPA inspection is performed. This process continues until an aircraft fails the ASPA inspection and is inducted into standard rework. The Integrated Maintenance Concept program for the AH-1 and UH-1 Helicopters is currently in concept exploration phase. When this information becomes available, it will be included in updates to this document.

3. Manning Concept. Qualitative and quantitative manpower requirements for the AH-1Z and UH-1Y Helicopters are driven by total preventive and corrective maintenance requirements and the Required Operational Capabilities/Projected Operational Environment (ROC/POE). The number of positions requiring manning for fleet squadrons are dictated by a deployment workload demanding 24-hour organizational level servicing during cyclic flight operations with a basic watch condition consisting of two sections, each responsible for a 12-hour period. Maintenance personnel requirements were derived from analysis of projected AH-1Z and UH-1Y reliability and maintainability data and predecessor system ROC/POE data. AH-1W and UH-1N manpower requirements are contained in the HMLA and MALS Tables of Organization (T/Os) and include:

T/O NUMBER	ACTIVITY
T/O 8970	HMLA Squadron
T/O 8970A	HMLA-775, Camp Pendleton
T/O 8970B	HMLA-775 Detachment A, Belle Chase
T/O 8970C	HMLA-773, Marietta
T/O 8970D	HMLA-773 Detachment, Willow Grove
T/O 8590	HMT-303 Training Squadron
T/O 8596	NAMTRA MARUNIT, Camp Pendleton
T/O 8910	MALS Rotary Wing
T/O 8910A	MALS-42, Marietta
T/O 8910B	MALS-49, Fort Stewart
T/O 8990	HMX-1, Quantico

Current manpower requirements for the HMT-303 are found in T/O 8582. HMT-303 FREST, currently part of the HMT-303 T/O, will be separated and renamed NAMTRA MARUNIT under T/O 8584 in FY02.

HMLA squadrons are assigned 18 AH-1 and nine UH-1 Helicopters. Units in the infrastructure that provide support are MALS-39 at Camp Pendleton, MALS-26 and MALS-29 at New River, North Carolina, and MALS-36 located in Okinawa, Japan. The Reserve MALS that

provide support are MALS-42 at NAS Atlanta, Georgia, and MALS-46 at MCAS Camp Pendleton. Based on an analysis performed by the Naval Air Systems Command (NAVAIRSYSCOM), AIR 3.4.1, it was determined that the AH-1Z and UH-1Y Helicopters will not generate a need for additional skills.

4. Training Concept. Aircrew training is dictated by Marine Corps Order (MCO) P3500.16C, Aviation Training and Readiness (T&R) Manual. Aircrew receive H-1 familiarization, ground training, and approximately sixty percent of their combat training at the FRS, then continue on to their permanent squadrons to complete combat and qualifications training. Aircrew refresher (Category 3) and modified refresher (Category 4) training is conducted depending on how long the aircrew member has been without H-1 proficiency training.

The established training concept for most aviation maintenance training divides "A" School courses into two or more segments called Core and Strand. The "C" School courses are Career training courses. "A" School Core courses include general knowledge and skills training for a particular basic MOS, while "A" School Strand courses focus on the more specialized training requirements for that MOS. Strand training immediately follows Core training and is part of the "A" School. Upon completion of Core and Strand "A" School, graduates attend the appropriate Career "C" School, for additional training on a specific type of aircraft or equipment, and to enhance skills and knowledge within their field. Graduates from "C" School receive their primary MOS.

Training on new systems can be broken down into two types; initial training and follow-on training. Initial training covers the training prior to and up to fielding the first systems, while follow-on training includes the incorporation of the new system into schoolhouse training. The different types of initial training fall into three categories. The categories are Developmental Test and Evaluation (DT&E) Training, OT&E Training, and Cadre Training. Each type of training has unique requirements and is handled separately.

DT&E training is very technical by nature and must be directly coordinated between the test activity and the contractor or agency that is developing the system being tested.

OT&E training has two functions. The first function is to train the OT&E personnel on operation and maintenance of the system being tested, so that they will be qualified to operate the system during testing. The second function is to evaluate the training for suitability in the fleet. OT&E personnel will recommend any changes necessary to make the training suitable for the fleet. OT&E training should be conducted approximately one month prior to OT&E.

Cadre training ("training the trainers") is provided to a small group of instructors, both aircrew and maintenance. This cadre of instructors establishes a program to train the personnel that will be introducing the new system into the fleet. Cadre training is developed from OT&E training through OT&E input. Naval Technical Data and Engineering Service Command (NATEC) Technical Representatives and FRS/NAMTRA MARUNIT instructors also attend

cadre training, and begin to integrate the new system into the schoolhouse curriculum for follow-on training.

Follow-on training is the schoolhouse training conducted by the FRS and the NAMTRA MARUNIT at HMT-303, MCAS Camp Pendleton, to formally certify H-1 aircrew and maintenance technicians, and results with the award of a MOS.

For the H-1, follow-on training is Computer-Based Training (CBT) for all classroom portions; primarily Computer Aided Instruction (CAI) for maintenance, and Interactive Courseware (ICW) for operator. Training also includes maintenance lab time and aircrew simulator/flight time. Follow-on training utilizes the cadre training package as source data for incorporation into the schoolhouse curriculum.

Training system life cycle support for the AH-1Z and the UH-1Y will be provided through a combination of contractors, government civilians, and active duty military. This support includes in-service engineering, operation and maintenance of TDs, revisions and maintenance of curriculum, and schoolhouse instruction. The H-1 Upgrades Program (AH-1Z and UH-1Y) consists of replacing and modifying existing curriculum and TDs with new or modified versions. Because of this, the most cost-effective method of providing training to HMLA aircrew and maintenance personnel is to use existing training activities and resources to the maximum extent. The aircrew curriculum will include ICW. Organizational and intermediate level maintenance curricula will include CAI augmented with ICW.

The AH-1Z and UH-1Y CBT will be network based, using a central/master server and developed by BHTI with technical assistance provided by Naval Aviation Maintenance Training Group headquarters, NAS Pensacola, Florida. In FY03, the aircrew curriculum and the first module of organizational maintenance curriculum will be developed. Intermediate level maintenance CBT will be the last module developed, completing the CBT acquisition in FY07.

a. Initial Training. Bell Helicopter Customer Training Academy will provide H-1 aircrew and maintenance cadre training for USMC personnel participating in the H-1 Upgrade OT&E. The target audience for OT&E training is experienced AH-1W and UH-1N Pilots, Crew Chiefs, and maintenance personnel. Each course of instruction will be limited to eight students per session. One government furnished AH-1Z and UH-1Y aircraft with a full complement of weapon systems will be used for approximately six weeks for hands-on practical exercises.

(1) Aircrew. BHTI is developing and will provide aircrew training during the H-1 Upgrade OT&E testing at NAVRWAIRTESTRON. This training will be the “difference only’’ material from the existing AH-1W and UH-1N aircrew curriculum. Development of formal aircrew training will be limited to ground school. The training will be conducted just prior to the start of OT&E, and BHTI will present the same training again before the end of OT&E.

Title ..... AH-1Z Pilot Training

Description ..... This course provides AH-1Z difference data (AH-1W) Pilot Training including:

- ° Cockpit Management System (CMS)
- ° IAS
- ° Airframes and Hydraulic Systems
- ° Powertrain, Rotors, and Related Systems
- ° Electrical and Avionics Systems
- ° AFCS and EW Systems
- ° Fire Control Systems

Upon completion, the student will be able to perform as a AH-1Z Pilot in a squadron environment.

Location ..... NAVRWAIRTESTRON, Patuxent River

Length ..... 39 days

RFT date ..... May 2003

Prerequisites ..... MOS 7565

Title ..... UH-1Y Pilot Training

Description ..... This course provides UH-1Y difference data (UH-1N) Pilot Training including:

- ° CMS
- ° IAS
- ° Airframes and Hydraulic Systems
- ° Powertrain, Rotors, and Related Systems
- ° Electrical and Avionics Systems
- ° AFCS and EW Systems
- ° Fire Control Systems

Upon completion, the student will be able to perform as a UH-1Y Pilot in a squadron environment.

Location ..... NAVRWAIRTESTRON, Patuxent River

Length ..... 39 days

RFT date ..... May 2003

Prerequisites ..... MOS 7563

Title	**UH-1Y Crew Chief Training**
Description	This course provides UH-1Y difference data (UH-1N) Crew Chief training including: ° CMS ° IAS ° Airframes and Hydraulic Systems ° Powertrain, Rotors, and Related Systems ° Electrical and Avionics Systems ° AFCS and EW Systems ° Fire Control Systems Upon completion, the student will be able to perform as an UH-1Y Crew Chief in a squadron environment.
Location	NAVRWAIRTESTRON, Patuxent River
Length	39 days
RFT date	May 2003
Prerequisites	MOS 6174

(2) Maintenance. BHTI is developing and will provide maintenance training at NAVRWAIRTESTRON just prior to OT&E, and BHTI will present the same training again before the end of OT&E. This training will be the "difference only'' material from the existing AH-1W and UH-1N curriculum, and is designed to provide maintenance and troubleshooting of aircraft systems at the organizational level.

Title	**H-1 Power Trains, Rotors, and Related Systems Integrated Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Forward Drivetrain ° Aft Drivetrain ° APU System and Operation ° Fire Suppression System ° Environment Control System ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River

Length	30 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6114

Title	**H-1 Airframes Systems Integrated Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Forward Fuselage ° Aft Drivetrain ° Landing Gear Systems ° APU System and Operation ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	9 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6154

Title	**H-1 Airframes Hydraulic Systems Integrated Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Hydraulic Systems One and Two ° APU System and Operation ° Pneumatic System ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	9 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6154

Title	**H-1 Communication/Navigation Identification and Related Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° IAS ° Communication Systems ° EW Systems ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	11 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6324

Title	**H-1 Electrical and Automatic Flight Controls Systems Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Electrical AC/DC Systems ° AFCS ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	17 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6324

Title	**H-1 Fire Control Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Armament Systems ° TSS ° IHDSS ° Miscellaneous Systems ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	11 days
RFT date	May 2003
TTE/TD	TBD
Prerequisites	MOS 6324

Title	**H-1 Armament Systems Organizational Maintenance**
Description	This course provides AH-1Z and UH-1Y difference data (AH-1W and UH-1N) training for initial cadre maintenance personnel including: ° CMS ° Fire Control Systems ° Weapons Systems ° Safety Upon completion the student will be able to perform maintenance during testing.
Location	NAVRWAIRTESTRON, Patuxent River
Length	5 days
RFT date	May 2003
TTE/TD	TBD
Prerequisite	MOS 6531

b. Follow-on Training. Follow-on aircrew and maintenance training for H-1 Helicopters is performed in the process described earlier in this section. At this time, AH-1Z and UH-1Y follow-on training has not yet been developed. AH-1Z and UH-1Y follow-on training for aircrew and maintenance personnel will be conducted by HMT-303 FRS and HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton. Current plans indicate AH-1Z and UH-1Y follow-on training will consist of CBT for all classroom portions, primarily CAI for maintenance and ICW for aircrew. Training also includes maintenance lab time, simulator, and flight time. Follow-on training will use the cadre-training package as source data for incorporation into the curricula. The Ready For Training (RFT) date for aircrew personnel at HMT-303 FRS is scheduled for FY05. The RFT date for maintenance personnel at HMT-303 NAMTRA MARUNIT is scheduled for FY05.

(1) Aircrew Training. Aircrew training for H-1 Helicopters is dictated by the Aviation Training and Requirements (T/R) Manual, Volume III, Tactical Helicopter 100 series for the AH-1 Pilots, 600 series for the UH-1 Pilots, and 700 series for UH-1 Crew Chiefs and AGOs. Therefore, the following aircrew courses do not have official Course Identification Numbers (CINs) assigned, although some courses within the pipeline may have a CIN. To ease tracking throughout this document, aircrew courses have been assigned NA1 through NA12.

The following aircrew pipelines are already established at HMT-303 FRS MCAS Camp Pendleton for training on the AH-1W and the UH-1N Helicopters. These pipelines will be updated by replacing and modifying the existing courseware with AH-1Z and UH-1Y curriculum. Future updates of this NTSP will include these changes.

Title	**AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline**
CIN	NA1
Model Manager...	HMT-303
Description.....	This pipeline provides the Category I and II Student Pilot knowledge and skills including: ° AH-1 Familiarization ° AH-1 NTS/LASER/FLIR Theory ° AH-1 ICW ° AH-1 Combat Capable ° Crew Tactics and Safety ° Communications and Navigation ° Naval Air Training and Operating Procedures Standardization (NATOPS) Upon completion, the student will be able to perform as an AH-1 Pilot in a squadron environment.
Location.....	HMT-303 FRS, MCAS Camp Pendleton
Length.....	152 days
RFT date	Currently available
Skill identifier	MOS 7565
TTE/TD	° Weapon System Trainer (WST) 2F136 ° Aircrew Procedures Trainer (APT) 2F170 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed Technical Training Equipment (TTE) and TD information
Prerequisites.....	° Graduate of Naval Aviation Flight School ° Security Clearance - Secret

Title	**AH-1 Conversion Pilot**
CIN	NA2
Model Manager...	HMT-303
Description.....	This pipeline provides the AH-1 Conversion Student Pilot knowledge and skills including: ° AH-1 Familiarization ° AH-1 NTS/LASER/FLIR Theory ° AH-1 ICW ° AH-1 Combat Capable ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as an AH-1 Pilot in a squadron environment.
Location.....	HMT-303 FRS, MCAS Camp Pendleton
Length.....	110 days
RFT date	Currently available
Skill identifier	MOS 7565
TTE/TD	° WST 2F136 ° APT 2F170 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites.....	° Graduate of Naval Aviation Flight School ° Security Clearance - Secret

Title	**AH-1 Fleet Replacement Refresher Pilot Category III Pipeline**
CIN	NA3
Model Manager...	HMT-303
Description.....	This pipeline provides the Category III Student Pilot knowledge and skills including: ° AH-1 Familiarization ° AH-1 NTS/LASER/FLIR Theory ° AH-1 Combat Capable ° AH-1 Full-Combat Qualification Training ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as an AH-1 Pilot in a squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length.....	54 days
RFT date	Currently available
Skill identifier	MOS 7565
TTE/TD	° WST 2F136 ° APT 2F170 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites.....	° Graduate of Naval Aviation Flight School ° Security Clearance – Secret ° AH-1 Fleet Replacement Pilot Category I/II Pipeline

Title	**AH-1 FRS Instructor Pilot**
CIN	NA4
Model Manager...	HMT-303
Description.....	This pipeline provides the prospective Instructor Pilot knowledge and skills including: ° Instructional Techniques ° Flight Training ° Crew Tactics and Safety ° Communications and Navigation ° Instructor Pilot Flight Training ° NATOPS Upon completion, the student will be able to perform as an AH-1 Instructor Pilot in a training squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length.....	28 days
RFT date	Currently available
Skill identifier	MOS 7565
TTE/TD	° WST 2F136 ° APT 2F170 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites.....	° Graduate of Naval Aviation Flight School ° Security Clearance – Secret ° AH-1 Fleet Replacement Pilot Category I/II Pipeline

Title	**UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline**
CIN	NA5
Model Manager	HMT-303
Description	This pipeline provides the Category I and II Student Pilot knowledge and skills including: ° UH-1 Familiarization ° UH-1 Ground School ° UH-1 Combat Capable Phase ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as a UH-1 Pilot in a squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	138 days
RFT date	Currently available
Skill identifier	MOS 7563
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° Graduate of Naval Aviation Flight School ° Security Clearance - Secret

Title	**UH-1 Conversion Pilot**
CIN	NA6
Model Manager	HMT-303
Description	This pipeline provides the UH-1 Conversion Student Pilot knowledge and skills including: ° UH-1 Familiarization ° UH-1 Ground School ° UH-1 Combat Capable Phase ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as a UH-1 Pilot in a squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	68 days
RFT date	Currently available
Skill identifier	MOS 7563
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° Graduate of Naval Aviation Flight School ° Security Clearance - Secret

Title	**UH-1 Fleet Replacement Refresher Pilot Category III Pipeline**
CIN	NA7
Model Manager...	HMT-303
Description.....	This pipeline provides the Category III Student Pilot knowledge and skills including: ° UH-1 Familiarization ° UH-1 Ground School ° UH-1 Combat Capable Phase ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as a UH-1 Pilot in a squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length.....	61 days
RFT date	Currently available
Skill identifier	MOS 7563
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites.....	° Graduate of Naval Aviation Flight School ° Security Clearance – Secret ° UH-1 Fleet Replacement Pilot Category I/II Pipeline

Title	**UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline**
CIN	NA8
Model Manager	HMT-303
Description	This pipeline provides the Category IV Student Pilot knowledge and skills: ° UH-1 Familiarization ° UH-1 Ground School ° UH-1 Combat Capable Phase ° Crew Tactics and Safety ° Communications and Navigation ° NATOPS Upon completion, the student will be able to perform as a UH-1 Pilot in a squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	40 days
RFT date	Currently available
Skill identifier	MOS 7563
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° Graduate of Naval Aviation Flight School ° Security Clearance – Secret ° UH-1 Fleet Replacement Pilot Category I/II Pipeline

Title	**UH-1 FRS Instructor Pilot**
CIN	NA9
Model Manager	HMT-303
Description	This pipeline provides the prospective Instructor Pilot knowledge and skills including: ° UH-1 Ground School ° Instructional Techniques ° Flight Training ° Crew Tactics and Safety ° Communications and Navigation ° Instructor Pilot Flight Training ° NATOPS Upon completion, the student will be able to perform as an UH-1 Instructor Pilot in a training squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	28 days
RFT date	Currently available
Skill identifier	MOS 7563
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° Graduate of Naval Aviation Flight School ° Security Clearance – Secret ° UH-1 Fleet Replacement Pilot Category I/II Pipeline

Title	**UH-1 Basic and Transition Crew Chief Category I and II Pipeline**
CIN	NA10
Model Manager	HMT-303
Description	This pipeline provides the Category I and II Student Crew Chief knowledge and skills including: ° UH-1 Familiarization ° Ground School ° Combat Capable Phase ° Crew Tactics and Safety ° NATOPS Upon completion, the student will be able to perform as a UH-1 Crew Chief in a squadron environment without supervision.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	149 days
RFT date	Currently available
Skill identifier	MOS 6174
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ° E-2D-0032, Survival Evasion Resistance and Escape ° D-9E-1225, Naval Aviation Water Survival Program R2 ° Q-050-1500, Naval Aircrewman Candidate School ° B-322-0040, Refresher Aerospace Physiology Maritime ° Security Clearance - Secret

Title	**UH-1 Conversion Crew Chief**
CIN	NA11
Model Manager...	HMT-303
Description.....	This pipeline provides the UH-1 Conversion Student Crew Chief knowledge and skills including: ° UH-1 Familiarization ° Ground School ° Combat Capable Phase ° Crew Tactics and Safety ° NATOPS Upon completion, the student will be able to perform as a UH-1N Crew Chief in a squadron environment without supervision.
Location.....	HMT-303 FRS, MCAS Camp Pendleton
Length.....	138 days
RFT date	Currently available
Skill identifier	MOS 6174
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites.....	° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ° E-2D-0032, Survival Evasion Resistance and Escape ° D-9E-1225, Naval Aviation Water Survival Program R2 ° Q-050-1500, Naval Aircrewman Candidate School ° B-322-0040, Refresher Aerospace Physiology Maritime ° Security Clearance - Secret

Note: UH-1 Refresher Crew Chief, Category III, and UH-1 AGO Basic, Transition, Conversion, and Refresher training is conducted at the tactical squadron assigned and in accordance with the T/R manual syllabus.

Title	**UH-1 Crew Chief Instructor**
CIN	NA12
Model Manager	HMT-303
Description	This pipeline provides the prospective UH-1 Crew Chief Instructor knowledge and skills including: ° Ground School ° Weapons and Tactics ° Night Systems ° Terrain Flight ° Air Combat Maneuver ° Aerial Gunnery ° Crew Tactics and Safety ° NATOPS Upon completion of any one of the five graduate level courses, Weapons and Tactics, Night Systems, Terrain Flight, or Arial Gunnery, the student will be able to perform as a UH-1 Crew Chief Instructor in a training squadron environment.
Location	HMT-303 FRS, MCAS Camp Pendleton
Length	124 days
RFT date	Currently available
Skill identifier	MOS 6177
TTE/TD	° WST 2F161 ° APT 2F175 Refer to Elements IV.A.1 and IV.A.2, respectively, for detailed TTE and TD information
Prerequisites	° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ° E-2D-0032, Survival Evasion Resistance and Escape ° D-9E-1225, Naval Aviation Water Survival Program R2 ° Q-050-1500, Naval Aircrewman Candidate School ° B-322-0040, Refresher Aerospace Physiology Maritime ° MOS 6174 ° UH-1 Crew Chief Category I/II Pipeline ° Combat Ready Phase (200 level) ° Security Clearance - Secret

(2) Maintenance Training. The following maintenance pipelines and courses are already established at HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton for training on the AH-1W and the UH-1N Helicopters. These pipelines and courses will be updated by replacing and modifying the existing courseware with AH-1Z and UH-1Y curriculum. Future updates of this NTSP will include these changes.

(a) Organizational Level Maintenance. Current courseware for personnel with MOS 6114, 6154, 6324, and 6531 is as follows:

Title	**AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance**
CIN	M-601-2014
Model Manager	HMT-303 NAMTRA MARUNIT
Description	This track provides the A/UH-1 Helicopter Mechanic knowledge and skills including: ° AH-1W Power Trains, Rotors, and Related Systems Organizational Maintenance ° H-1 Combined Maintenance ° UH-1N Power Trains, Rotors, and Related Systems Organizational Maintenance ° Publications and Safety Procedures Upon completion, the student will be able to perform as an AH-1W and UH-1N Power Plants Technician in a squadron environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton
Length	60 days
RFT date	Currently available
Skill identifier	MOS 6114
TTE/TD	° AH-1W Composite Maintenance Trainers (CMT) 410101 and 111101 ° UH-1N CMTs 110201 and 310101 ° Engine Remove/Replace Trainer (ERRT) 222101 Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites	° C-601-2011, Aviation Machinist's Mate Common A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1

Title	**A/UH-1 Helicopter Airframe Mechanic**
CIN	M-602-2081
Model Manager	HMT-303 NAMTRA MARUNIT
Description	This track provides the A/UH-1 Helicopter Airframe Mechanic knowledge and skills including: ° H-1 Airframes Systems Organizational Maintenance ° AH-1W and UH-1N Hydraulic Systems ° Stability Control Augmentation System (SCAS) ° Corrosion Control including Hazardous Materials ° Stubwing/Tailboom and Elevators ° AH-1W Canopy System ° Publications and Safety Procedures Upon completion, the student will be able to perform as an A/UH-1 Helicopter Airframe Mechanic in a squadron environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton
Length	30 days
RFT date	Currently available
Skill identifier	MOS 6154
TTE/TD	° AH-1W CMTs 410101 and 111101 ° UH-1N CMTs 310101 and 110201 ° ERRT 222101 ° UH-1N Avionics Trainer (AVT) 142401 Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1

Title	**H-1 Communication, Navigation, Identification System Maintenance**
CIN	M-102-2024
Model Manager	HMT-303 NAMTRA MARUNIT
Description	This track provides the A/UH-1 Aircraft Communication/ Navigation/Electrical/Weapon Systems Technician the knowledge and skills including: ° H-1 Communication, Navigation, Identification, and Related Systems Organizational Maintenance ° H-1 Electrical and SCAS Organizational Maintenance ° AH-1W Tube Launched Optically-Tracked Wire-Guided (TOW)/HELLFIRE Control and Display System Integrated Organizational Maintenance ° H-1 Wire Bundle Repair Organizational Maintenance ° AH-1W NTS and UH-1N Navigational Thermal Imaging Systems Organizational Maintenance ° Publications and Safety Procedures Upon completion, the student will be able to perform as an H-1 Communication, Navigation, Identification System Maintenance Technician in a squadron environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT
Length	114 days
RFT date	Currently available
Skill identifier	MOS 6324
TTE/TD	° AH-1W CMTs 410101 and 111101 ° UH-1N CMTs 310101 and 110201 ° UH-1N Electrical/Armament Trainer (EAT) 142301 Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1 ° Security Clearance - Secret

Title	**AH-1W and UH-1N Armament Systems Maintenance**
CIN	M-646-2044
Model Manager...	HMT-303 NAMTRA MARUNIT
Description.....	This track provides the Aviation Ordnance Technician the knowledge and skills including: ° Introduction of M197 20MM, GAU-17/A, GAU-16/A, M249D Aircraft Machine Gun and M89 Delinking Feeder ° AH-1W Turret Maintenance ° AH-1/UH-1 Conventional Weapons Loading ° AN/ALE-39 Countermeasures Systems ° AIM-9/AGM-122 TOW, and HELLFIRE Missile Systems ° Armament System Emergency Procedures ° Scheduled and Unscheduled Maintenance Procedures ° Publications and Safety Procedures Upon completion, the student will be able to perform as an AH-1W and UH-1N Armament Systems Maintenance Technician in a squadron environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT
Length.....	65 days
RFT date	Currently available
Skill identifier	MOS 6531
TTE/TD	° EAT 142301 ° AH-1W CMTs 410101 and 111101 ° UH-1N CMTs 310101 and 110201 Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Airwing Strand Class A1 ° Security Clearance - Secret

(b) Intermediate Level Maintenance. AH-1Z and UH-1Y follow-on training has not yet been developed. Future updates of this NTSP will include the

updated courseware. Current courseware for personnel with MOS 6062, 6124, 6132, 6413, 6422, 6433, 6483, and 6541 is as follows:

Title	**F/A-18 Hydraulics Components Intermediate Maintenance**
CIN	D/E-602-4007
Model Manager	Maintenance Training Unit (MTU) 1038 Naval Air Training Unit (NAMTRAU) Lemoore
Description	This track provides the Aircraft Intermediate Level Hydraulic/Pneumatic Mechanic knowledge and skills including: ° Operation ° Testing ° Troubleshooting ° Component Repair ° Servo-cylinder Test Station ° Publications ° Safety procedures Upon completion, the student will be able to perform as a Hydraulics Components Intermediate Maintenance Mechanic in a shop environment under close supervision
Location	° MTU 1039 NAMTRAU Oceana, Virginia ° MTU 1038 NAMTRAU Lemoore, California
Length	54 days
RFT date	Currently available
Skill identifier	MOS 6062
TTE/TD	° Hydraulic Horizontal Stabilizer Servo-cylinder ° Servo-cylinder Test Station ° Hydraulic Drive Unit Servo-Valve Assembly Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-603-0175, Aviation Structural Mechanic (Structure and Hydraulics) Class A1 ° C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1

Title	**T-400/T-700 Engine First Degree Intermediate Maintenance**
CIN	M-601-3027
Model Manager...	HMT-303 NAMTRA MARUNIT
Description.....	This track provides the T-400/T-700 Helicopter Power Plants Mechanic knowledge and skills including: ° T700-GE 401 Engine Intermediate Maintenance (First Degree) ° T-400 Series Engine First Degree Intermediate Maintenance ° T-400/700 Engine Theory of Operation ° T-400/700 Engine Removal and Installation ° T-400/700 Engine Inspection and Troubleshooting ° T-400/700 Engine System Analysis ° T-400/700 Engine Borescoping Procedures ° T-400/700 Engine Publications and Safety Procedures Upon completion, the student will be able to perform as an T-400/T-700 Engine First Degree Intermediate Maintenance Technician in a shop environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton
Length.....	64 days
RFT date	Currently available
Skill identifier	MOS 6124
TTE/TD	° T400 Reduction Gearbox ° T400-CP-400 Power Section ° T400-WV-402 Power Section ° T700-GE-401 Engine Assembly Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-601-2011, Aviation Machinist’s Mate Common Core Class A1 ° C-601-2012, Aviation Machinist’s Mate Helicopter Fundamentals Strand Class A1

Title	**Helicopter Dynamic Component Intermediate Maintenance**
CIN	M-601-3090
Model Manager	HMT-302 NAMTRA MARUNIT
Description	This track provides the Helicopter Tiltrotor Dynamic Components Mechanic knowledge and skills including: ° Helicopter Dynamic Component Repair Intermediate Maintenance ° CH-46 Rotors and Related System ° UH-1 Rotors and Related System ° Maintenance and Servicing ° Corrosion Control (Basic) ° Test Equipment and Special Tools ° Publications and Safety Procedures Upon completion, the student will be able to perform as a Helicopter Dynamic Components Intermediate Maintenance Mechanic in a shop environment under close supervision.
Location	HMT-302 NAMTRA MARUNIT, MCAS New River
Length	29 days
RFT date	Currently available
Skill identifier	MOS 6132
TTE/TD	° Rotor Head Assembly ° Swashplate Assembly ° Scissors and Sleeve Assembly ° Tail Rotor Assembly Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1 ° C-600-2010, Basic Helicopter Class M1

Title	**Aircraft Navigation Systems Equipment Intermediate Maintenance**
CIN	M-102-6413
Model Manager...	Fixed Wing Marine Attack Training Squadron (VMAT) - 203 NAMTRA MARUNIT
Description.....	This track provides the IMA IFF/RADAR/ Tactical Air Navigation Aircraft Navigation (TACAN)System Technician knowledge and skills including: ° Aircraft Systems Purpose and Operation ° APX-72/APX-100 IFF ° AN/ARN-118(V) TACAN ° AN/APN-194(V) Radar Altimeter systems ° Publications ° Safety Procedures Upon completion, the student will be able to perform as an Aircraft Navigation Systems Equipment Intermediate Maintenance Technician in a shop environment under close supervision.
Location	VMAT-203 NAMTRA MARUNIT, MCAS Cherry Point, North Carolina
Length.....	65 days
RFT date	Currently available
Skill identifier	MOS 6413
TTE/TD	° AN/APX-72 IFF Transponder ° AN/APX-100(V) IFF Transponder ° AN/ARN-118(V) TACAN ° AN/APN-194(V) Radar Altimeter Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites.....	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1 ° Security Clearance - Confidential

Title	**Cryptographic Equipment Intermediate Maintenance**
CIN	D/E-102-6122
Model Manager...	MTU 1039 NAMTRAU Oceana
Description.....	This track provides the IMA Aircraft Cryptographic Systems Technician knowledge and skills including: ° KT-1C ° KT-58 ° ANDVT Security Equipment ° TSEC/KG-40A Upon completion, the student will be able to perform as a Cryptographic Equipment Intermediate Maintenance Technician in a shop environment under close supervision.
Locations	° MTU 1039 NAMTRAU Oceana ° MTU 1038 NAMTRAU Lemoore
Length.....	19 days
RFT date	Currently available
Skill identifier	MOS 6422
TTE/TD	° KT-1C ° KT-58 ° ANDVT Equipment ° TSEC/KG-40A ° Cryptographic Unit Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites.....	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1 ° MOS 6412 ° Security Clearance – Secret

Title	**H-1 Aircraft Electrical Instrument/Automatic Flight Control System Equipment Intermediate Maintenance**
CIN	M-602-5811
Model Manager...	HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton
Description.....	This track provides the IMA Aircraft Electrical/Instrument/Flight Control Systems Technicians with knowledge and skills including: ° AH-1W and UH-1N AFCS ° SCAS ° H-1 Electrical ° AH-1W Armament and Control Delivery ° AH-1W A/A49E-7 Turret System ° Aircraft Battery Maintenance ° Publications and Safety Procedures Upon completion, the student will be able to perform as a H-1 Aircraft Electrical Instrument/Automatic Flight Control System Equipment Intermediate Maintenance Technician in a shop environment under close supervision.
Location	HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton
Length.....	66 days
RFT date	Currently available
Skill identifier	MOS 6433
TTE/TD	° AH-1W CMTs 410101 and 111101 ° UH-1N CMTs 310101 and 110201 ° EAT 142301 ° AVT 142401 ° ERRT 222101 Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites.....	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electricians Mate O Level Strand Class A1 ° Security Clearance - Confidential

Title	**Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance**
CIN	M-102-6483
Model Manager...	VMAT-203 NAMTRA MARUNIT
Description.....	This track provides the IMA Helicopter Aircraft Electronic Countermeasures Systems Technician knowledge and skills including: ° AN/AAR-47 MWS ° AN/AVS-6 ANVIS ° AN/AVR-2 LDS ° AN/ALE-39 ECM ° AN/APR-39(V)1 RSDS ° AN/ALQ-144(V)1 ECM ° AN/ALQ-157(V) IR ECM Upon completion, the student will be able to perform as a Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance Technician in a shop environment under close supervision.
Location	VMAT-203 NAMTRA MARUNIT, MCAS Cherry Point
Length.....	75 days
RFT date	Currently available
Skill identifier	MOS 6483
TTE/TD	° AN/AAR-47 Receiver ° AN/AVS-6 Receiver ° AN/AVR-2 Receiver ° AN/ALE-39 Receiver ° AN/APR-39(V)1 Receiver ° AN/ALQ-144(V)1 Receiver ° AN/ALQ-157(V) Receiver Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisites.....	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1 ° Security Clearance - Secret

Title	**Aviation Ordnance Technician Intermediate Maintenance**
CIN	M-646-7026
Model Manager...	VMAT-203 NAMTRA MARUNIT, MCAS Cherry Point
Description.....	This track provides the Aviation Ordnance Systems Technician the knowledge and skills including: ° Hazardous Material ° Explosive Driver ° Publications and Safety Procedures ° Aviation Ordnance Intermediate Maintenance Upon completion, the student will be able to perform as an Aviation Ordnance Intermediate Maintenance Technician in a shop environment under close supervision.
Location.....	VMAT-203 NAMTRA MARUNIT, MCAS Cherry Point
Length.....	79 days
RFT date	Currently available
Skill identifier	MOS 6541
TTE/TD	° BRU-20/21/22 Bomb Racks ° LAU-10 Rocket Launcher ° M-197 and M-60 Machine Guns ° LAU-7 Missile Launcher with ADU-299 Adapter ° M272 HELLFIRE Launcher Refer to Elements IVA.1 and IV.A.2, respectively, for detailed TTE/TD information.
Prerequisite	° C-646-2012, Aviation Ordnanceman Airwing Strand A1 ° Security Clearance - Secret

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6062	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6114	° C-601-2011, Aviation Machinist's Mate Common A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6124	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6132	° C-601-2011, Aviation Machinist's Mate Common Core Class A1 ° C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1 ° C-600-2010, Basic Helicopter Class M1
MOS 6154	° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulics) Common Core Class A1 ° C-603-0176, Aviation Structural Mechanic Organizational Level Strand Class A1
MOS 6174	° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ° E-2D-0032, Survival Evasion Resistance and Escape ° D-9E-1225, Naval Aviation Water Survival Program R2 ° Q-050-1500, Naval Aircrewman Candidate School ° B-322-0040, Refresher Aerospace Physiology Maritime
MOS 6177	° C-600-2010, Basic Helicopter Class M1, Naval Aircrewman Candidate School ° E-2D-0032, Survival Evasion Resistance and Escape ° D-9E-1225, Naval Aviation Water Survival Program R2 ° Q-050-1500, Naval Aircrewman Candidate School ° B-322-0040, Refresher Aerospace Physiology Maritime
MOS 6324	° C-100-2020, Avionics Common Core Class A1 ° C-100-2018, Avionics Technician O Level Class A1
MOS 6413	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6422	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1 ° MOS 6412
MOS 6433	° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electricians Mate O Level Strand Class A1
MOS 6483	° C-100-2020, Avionics Common Core Class A1 ° C-100-2017, Avionics Technician I Level Class A1
MOS 6531	° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Airwing Strand Class A1
MOS 6541	° C-646-2012, Aviation Ordnanceman Airwing Strand A1
MOS 7563	° Graduate of Naval Aviation Flight School
MOS 7565	° Graduate of Naval Aviation Flight School

d. Training Pipelines. At the current time no new training pipelines or tracks will be required to support the AH-1Z and UH-1Y acquisition. The training tracks and courses currently supporting the AH-1W and UH-1N will be modified to include the new systems and equipment.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. Current planning is to adopt the Aviation Maintenance Training Continuum System (AMTCS) concepts to replace the Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment in FY02.

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological

advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction for the technicians in the Fleet in the form of ICW with Computer Managed Instruction and CAI for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing (Test and Evaluation), recording (Electronic Certification Qualification Records) and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet TDs, laptops, PCs, Electronic Classrooms, Learning Resource Centers, operating software, network software, and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP) programs.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. Marine Corps onboard training is based on the current series of MCO P4790.12, Individual Training Standards System and MATMEP. This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by AMTCS.)

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N0001996C0128	Bell Helicopter Textron, Inc	P.O. Box 482 Fort Worth, TX 76101

2. Program Documentation. Approval to Change 2 is pending for both the AH-1W Upgrade Operational Requirements Document (ORD), OPNAV 5000 AAS-35, and the UH-1N Upgrade ORD, OPNAV 5000 AAS-35.

3. Technical Data Plan. The technical manuals required for support and training of the AH-1Z and UH-1Y are being developed by BHTI, with an estimated completion date of first quarter FY02.

4. Test Sets, Tools, and Test Equipment. BHTI has recommended tools, test sets, and test equipment to support the AH-1Z and UH-1Y. This list is being generated through the Logistics Support Analysis Requirements (LSAR) process and reviewed by the Support Equipment Integrated Product Team (SEIPT), comprised of PMA276 and BHTI. An approved list will be included in updates to this NTSP.

5. Repair Parts. The contractor will provide interim supply support, including vendor items required to support the AH-1Z and UH-1Y until the MSD. The estimated MSD for the AH-1Z is FY09 and the estimated MSD for the UH-1Y is FY08.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. An Initial Operational Capability (IOC) no later than FY06 is required for both the AH-1Z and UH-1Y. IOC for the AH-1Z will be achieved when the first squadron receives a detachment of six AH-1Z Helicopters with required SE, technical publications, trained operators and aircrew, maintenance personnel, and initial spares with interim repair support in place. Full Operational Capability (FOC) will be achieved when all maintenance and repair support, test equipment, and spares are in place; active force primary aircraft authorization to include training, research and development aircraft (quantity 132) are modified to a final, fully integrated configuration; and all personnel are trained.

IOC for the UH-1Y will be achieved when the first HMLA squadron receives a detachment of three UH-1Y Helicopters with required SE, technical publications, trained operators and aircrew, maintenance personnel, and initial spares with interim repair support in place. FOC will be achieved when all maintenance and repair support, test equipment, and spares are in place; active force primary aircraft authorization to include training, research and development aircraft (quantity 66) are modified to a final, fully integrated configuration; and all personnel are trained.

UPGRADES SCHEDULE BY TYPE AIRCRAFT AND FY											
AIRCRAFT	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**TOTAL**
AH-1Z	6	12	15	24	24	24	24	24	7	2	162
UH-1Y	3	7	8	11	11	11	12	12	12	10	97

2. Ready For Operational Use Schedule. All HMLA squadrons are Ready For Operational Use upon receipt of AH-1Z and UH-1Y Helicopters and when all transition training is complete. Current plans indicate all AH-1Z and UH-1Y Helicopters will be accepted by HMT-303 prior to transferring helicopters to the transitioning HMLA squadron. A specific aircraft delivery schedule for each HMLA squadron has not been established yet.

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. The DoD intends to pursue an aggressive FMS program; however, no FMS schedule has been developed. For information concerning FMS contact PMA276.

5. Training Device and Technical Training Equipment Delivery Schedule

(1) Weapons System Trainer. AH-1 WST 2F136 is a TD that enables Aviators to train in a realistic environment throughout the spectrum of AH-1 missions. There are two AH-1 WST 2F136s; one is located at Camp Pendleton, the second at New River. UH-1N WST 2F161 has a fully instrumented cockpit that simulates Twin Huey operation on the ground, during takeoff, flight, and landing. UH-1 WST 2F161 is located at Camp Pendleton. There will be no new WSTs. WST 2F136 and WST 2F161 will be upgraded to AH-1Z and UH-1Y configurations. These modifications are scheduled to begin in FY08, and will be accomplished in 30 months.

(2) Aircrew Procedures Trainer. AH-1 APT 2F170 is a rugged, air-land-sea deployable flight, weapons, and procedure trainer for AH-1 Aircrew. There are four AH-1 APT 2F170s; they are located at Camp Pendleton, New River, Atlanta, and New Orleans. The UH-1 APT 2F175 is a deployable training system capable of simulating all ground, take-off, flight, operational, and landing characteristics of the UH-1 Helicopter. One UH-1 APT 2F175 is located at New River. Current plans indicate the first flight simulators are to be developed starting in FY02 and delivered in FY04, 12 weeks prior to the first aircraft delivery. The UH-1Y APT will be the first TD developed and delivered; an AH-1Z APT will be the second TD delivered. Each of the first four TDs will be delivered to MCAS Camp Pendleton to support transition training. APT 2F170 and APT 2F175 require 24-months to upgrade to AH-1Z and UH-1Y configuration, and will begin in FY02. The H-1 Upgrades Simulator Procurement Plan currently indicates funding for three AH-1Z and five UH-1Y APTs. The initial and ultimate

locations of these TDs are pending analysis, but will include Camp Pendleton, New River, Atlanta, and Futenma, Japan.

(3) Composite Maintenance Trainers. The CMT is a full AH-1W and UH-1N Helicopter with complete airframe and avionics systems. There are currently two AH-1W and UH-1N CMTs located at HMT-303 NAMTRA MARUNIT. The first maintenance trainers will be developed during Low Rate Initial Production starting in FY03 and delivered in FY04. The first maintenance trainer, AH-1Z/UH-1Y Modified Composite Maintenance Trainer (MCMT), will be a suite of H-1 systems developed from existing UH-1N AVT and one of the AH-1W CMTs. This single suite will be considered a full UH-1Y CMT and a half AH-1Z CMT. These devices will include their own power supply, safety stops, and an Instructor Operator Station (IOS) with computerized fault insertion. AH-1Z and UH-1Y EMD Helicopters will also be used to support fleet training. Two EMD AH-1Z and UH-1Y Helicopters will be transferred to HMT-303 NAMTRA MARUNIT starting in FY05. This development and delivery will provide two and a half AH-1Z, and three UH-1Y CMTs for use at HMT-303 NAMTRA MARUNIT for life cycle AH-1Z and UH-1Y training requirements.

(4) UH-1 Avionics Systems Trainer. The AVT is a stricken helicopter modified for training. The AVT Device 142401 is located at HMT-303 NAMTRA MARUNIT and used to conduct avionics maintenance training. The Communication/Navigation (COMM/NAV) Block Upgrade, Phase A, NVG-HUD and NTIS, and COMM/NAV Phase B modification was completed in FY98. At the current time there are no plans to modify the AVT to UH-1Y configuration. The AVT will continue to support UH-1N (two-bladed rotor system) as long as required and will be disposed of when UH-1N requirements are complete.

(5) Electrical/Armament Trainer. The EAT Device 142301 is a UH-1N Helicopter skeleton with electrical system and IDAS installed. The EAT is located at HMT-303 NAMTRA MARUNIT, MCAS Camp Pendleton. At the current time there are no plans to modify the EAT to UH-1Y configuration. The EAT will continue to support UH-1N (two-bladed rotor system) as long as required and will be disposed of when UH-1N requirements are complete.

(6) Engine Remove/Replace Trainer. The ERRT Device 222101 is a skeleton AH-1W Helicopter that facilitates the removal and replacement of AH-1W engine, powertrain, combining gearboxes, transmission, main rotor mast, tail rotor driveshaft, and tail rotor systems maintenance. At the current time there are no plans to modify the ERRT to AH-1Z configuration. The ERT will continue to support AH-1W (two-bladed rotor system) as long as required and will be disposed of when AH-1W requirements are complete.

(6) Electronic Part Task Trainers. The HMLA Part Task Trainers (PTT) support both AH-1 and UH-1 training in the fleet. The PTT is PC-based computer, hosting software and hardware packages that allow system specific training. There are 35 HMLA PTTs throughout the fleet. The hardware and first three modules (MFD, LFD, and IHDSS) will be acquired starting in FY03, to be RFT in FY05. The next two modules (TSS and TAMMAC) will

be developed and delivered in FY06. The final modules (Engagement Skills and Miscellaneous Systems) will be developed and delivered in FY07.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/ARC-210(V) Integrated Logistics Support Plan	AV-ILSP-322	PMA209	Approved May 95
Test and Evaluation Master Plan (TEMP) for the H-1 Upgrades Program	TEMP Number 1435 (Rev A currently in draft)	PMA276	Approved Sep 96
Operational Requirements Document AAS-35 for the AH-1W Upgrade	OPNAV 5000 AAS-35	CG MCCDC	CH-2 Aug 00
Operational Requirements Document AAS-51 for the UH-1N Upgrade	OPNAV 5000 AAS-51	CG MCCDC	CH-2 Aug 00
USMC H-1 Upgrades Program Cobra/Huey Acquisition Document (CHAD)	OPNAV 5002.2 3.3	CG MCCDC	Sep 96
AH-1W APR-39A(V)2 Training Plan	Ser PMA2052C/0800020	PMA205-2C	Aug 00
H-1 Upgrades Program NTSP	N88-NTSP-A-50-9602/A	PMA205	Dec 97
AH-1W Navy Training Plan (NTP)	A-50-8520D	PMA205	Mar 96
HH/UH-1N NTP	A-50-9404/D	PMA205	Oct 94
Embedded Global Positioning System Inertial Navigation System NTSP	TBD	PMA209	Apr 96
AN/ALE-47 Countermeasures Dispenser System NTP	A-50-9001A	PMA272	Apr 94

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Tactical Aircraft Moving Map Capability (TAMMAC) NTSP	Ser 0604215NW057Z	PMA209	Initial Jan 97
Integrated Mechanical Diagnostics Health and Usage Monitoring System (IMD/HUMS) NTSP	N78-NTSP-A-50-0105/I	PMA299	Initial Feb 01
Hellfire Modular Missile System (HMMS) NTSP	N88-NTSP-A-50-8311B/A	PMA242	Approved Mar 01

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y), and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCES: Total Force Manpower Management System, Table of Manpower Requirements, PMA202 **DATE:** 8/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC							
HMH-772 NAS Willow Grove	67828	1	0	0	0	0	0
HMLA-167 MCAS New River	09868	1	0	0	0	0	0
HMLA-269 MCAS New River	08998	1	0	0	0	0	0
HMLA-773 Det A NAS Willow Grove	09415	1	0	0	0	0	0
HMLA-773 MCAS Marietta	09431	1	0	0	0	0	0
HMLA-775 Det A MCAS Bell Chase	09415	1	0	0	0	0	0
HMX-1 MCAS Quantico	55173	1	0	0	0	0	0
HMLA-169 MCAS Camp Pendleton	09202	1	0	0	0	0	0
HMLA-267 MCAS Camp Pendleton	09159	1	0	0	0	0	0
HMLA-367 MCAS Camp Pendleton	09079	1	0	0	0	0	0
HMLA-369 MCAS Camp Pendleton	09361	1	0	0	0	0	0
HMLA-775 MCAS Camp Pendleton	55257	1	0	0	0	0	0
HMT-303 MCAS Camp Pendleton	55176	1	0	0	0	0	0
TOTAL:		13	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - NAVY							
Flag and Staff Allow, US LANT FLT and NAVEUR	00000	1	0	0	0	0	0
NAMTRAGRU HQ Pensacola	62229	1	0	0	0	0	0
Spec Assign Navy Dept, Arlington	31201	1	0	0	0	0	0
Flag and Staff Allow, US PAC FLT and NAVCENT	00000	1	0	0	0	0	0
TOTAL:		4	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - USMC							
Aviation Dept HQMC, Arlington	00027	1	0	0	0	0	0
Defense Logistics Agency Alexandria	45947	1	0	0	0	0	0
MAD NAS Patuxent River	67356	1	0	0	0	0	0
MAG-26 MCAS New River	09506	1	0	0	0	0	0
MAG-29 MCAS New River	52844	1	0	0	0	0	0
MAG-42 MCAS Marietta	67236	1	0	0	0	0	0
MAG-49 NAS Willow Grove	67256	1	0	0	0	0	0
MALS-26 (HMLA-167 Augment)	09107	1	0	0	0	0	0
MALS-26 MCAS New River	09167	1	0	0	0	0	0
MALS-29 (HMLA-269 Augment)	52841	1	0	0	0	0	0
MALS-29 MCAS New River	52841	1	0	0	0	0	0
MALS-39 (HMLA-775 Augment)	09808	1	0	0	0	0	0
MALS-42 MCAS Marietta	09513	1	0	0	0	0	0
MALS-49 (HMLA-773 Det A Augment)	55555	1	0	0	0	0	0
MALS-49 Fort Stewart	55555	1	0	0	0	0	0
MARCOR Asgn Allied/UN Commands	00000	1	0	0	0	0	0
MARCOR Asgn USA/USAF	00000	1	0	0	0	0	0
MASD Andrews AFB	65705	1	0	0	0	0	0
MC Personnel Dept of Navy	00000	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCES: Total Force Manpower Management System, Table of Manpower Requirements, PMA202 **DATE:** 8/1/01

ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
MC Systems Command Quantico	00262	1	0	0	0	0	0
MCCDC Quantico	00264	1	0	0	0	0	0
Site Support Belle Chase	82191	1	0	0	0	0	0
US Joint Forces Command and Sub (USJFCOM)	00000	1	0	0	0	0	0
H&HS MCAS Camp Pendleton	67604	1	0	0	0	0	0
H&HS MCAS Yuma	62974	1	0	0	0	0	0
H&HS MCAS Yuma	62974	1	0	0	0	0	0
MAD China Lake	67852	1	0	0	0	0	0
MAG-16 MCAS Miramar	09243	1	0	0	0	0	0
MAG-36 MCAS Futenma	09260	1	0	0	0	0	0
MAG-39 MCAS Camp Pendleton	09304	1	0	0	0	0	0
MALS-16 MCAS Miramar	55583	1	0	0	0	0	0
MALS-36 MCAS Futenma	09136	1	0	0	0	0	0
MALS-39 (HMLA-169 Augment)	09808	1	0	0	0	0	0
MALS-39 (HMLA-267 Augment)	09808	1	0	0	0	0	0
MALS-39 (HMLA-367 Augment)	09808	1	0	0	0	0	0
MALS-39 (HMLA-369 Augment)	09808	1	0	0	0	0	0
MALS-39 (HMT-303 Augment)	09808	1	0	0	0	0	0
MALS-39 MCAS Camp Pendleton	09808	1	0	0	0	0	0
MAWTS-1 Yuma	57079	1	0	0	0	0	0
MCAGCC, Twentynine Palms	67399	1	0	0	0	0	0
MCRD San Diego	00243	1	0	0	0	0	0
Site Support Camp Pendleton	00000	1	0	0	0	0	0
TOTAL:		42	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
HMH-772 NAS Willow Grove, 67828					
SMCR	0	1	CPL	6174	
ACTIVITY TOTAL:	0	1			
HMLA-167 MCAS New River, 09868					
USMC	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	
	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	31	LCPL	6114	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	
	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	
	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-167 MCAS New River, 09868, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-167 MCAS New River, 09868, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	
HMLA-167 MCAS New River, 09868, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMLA-269 MCAS New River, 08998					
USMC	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	
	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	
	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-269 MCAS New River, 08998, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-269 MCAS New River, 08998, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	
HMLA-269 MCAS New River, 08998, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			
HMLA-773 Det A NAS Willow Grove, 09415					
USMC	2	0	CAPT	7563	
	1	0	CAPT	7565	
	1	0	MAJ	7565	
	0	2	CPL	6046	
	0	1	CPL	6048	
	0	3	CPL	6114	
	0	3	CPL	6154	
	0	1	CPL	6174	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	CPL	6324	
	0	2	CPL	6531	
	0	1	GYSGT	6114	
	0	1	GYSGT	6324	
ACDU	0	1	HM2	8406	
USMC	0	1	LCPL	0121	
	0	1	LCPL	0431	
	0	1	LCPL	6072	
	0	6	LCPL	6114	
	0	3	LCPL	6154	
	0	1	LCPL	6174	
	0	4	LCPL	6324	
	0	2	LCPL	6531	
	0	1	LCPL	7041	
	0	1	SGT	6114	
	0	3	SGT	6154	
	0	1	SGT	6174	
	0	2	SGT	6324	
	0	1	SGT	6531	
	0	1	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
AR	1	0	CAPT	7563	
	1	0	CAPT	7565	
	1	0	MAJ	7565	
	0	1	CPL	0121	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	
	0	2	GYSGT	6154	9954
	0	1	GYSGT	6531	
	0	1	SGT	6114	
	0	1	SGT	6154	
	0	1	SGT	6324	
	0	1	SSGT	0193	
	0	1	SSGT	6046	
	0	1	SSGT	6531	
SMCR	4	0	CAPT	7565	
	2	0	LT	7563	
	6	0	LT	7565	
	1	0	MAJ	7563	
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	1	CPL	6174	
	0	4	CPL	6324	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	1	CPL	6531	
	0	1	LCPL	0121	
	0	1	LCPL	6046	
	0	4	LCPL	6114	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
	0	3	LCPL	6324	
	0	2	LCPL	6531	
	0	2	SGT	6114	
	0	1	SGT	6531	
	0	1	SSGT	6114	
	0	1	SSGT	6324	
HMLA-773 Det A NAS Willow Grove, 09415, FY03 Increment					
USMC	1	0	CAPT	7563	
HMLA-773 Det A NAS Willow Grove, 09415, FY04 Increment					
SMCR	0	1	LCPL	6324	
ACTIVITY TOTAL:	21	96			
HMLA-773 MCAS Marietta, 09431					
USMC	1	0	CAPT	7563	
	1	0	CAPT	7565	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	1	HM2	8406	
USMC	0	2	LCPL	0121	
	0	1	LCPL	2111	
	0	1	LCPL	0431	
	0	1	LCPL	6072	
	0	5	LCPL	6114	
	0	4	LCPL	6154	
	0	1	LCPL	6174	
	0	5	LCPL	6324	
	0	3	LCPL	6531	
	0	2	LCPL	7041	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	MGYSGT	6019	
	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	4	SGT	6154	
	0	2	SGT	6174	
	0	1	SGT	6177	6174
	0	3	SGT	6324	
	0	2	SGT	6531	
	0	1	SSGT	6046	
	0	2	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
AR	2	0	CAPT	7563	
	1	0	CAPT	7565	
	1	0	CWO2	0170	
	2	0	MAJ	7565	
	0	2	CPL	0121	
	0	1	CPL	6073	
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	1	CPL	6324	
	0	4	CPL	6531	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	9954
	0	1	GYSGT	6531	
	0	2	LCPL	6114	
	0	1	MSGT	0193	
	0	1	SGT	6046	
	0	3	SGT	6114	
	0	1	SGT	6154	
	0	1	SGT	6324	
	0	1	SGT	6531	
	0	1	SSGT	0231	
	0	1	SSGT	6046	
	0	1	SSGT	6114	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
SMCR	3	0	CAPT	7563	
	1	0	CAPT	7563	7577
	10	0	CAPT	7565	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	1	0	CWO2	6302	
SELRES	1	0	LT	2100	
SMCR	4	0	LT	7563	
	12	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	2	0	MAJ	7563	
	3	0	MAJ	7565	
	0	1	CPL	6046	
	0	1	CPL	6073	
	0	9	CPL	6114	
	0	8	CPL	6154	
	0	4	CPL	6174	
	0	10	CPL	6324	
	0	2	CPL	6531	
	0	2	GYSGT	6114	
	0	2	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
	0	1	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	0431	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	1	LCPL	6072	
	0	13	LCPL	6114	
	0	14	LCPL	6154	
	0	3	LCPL	6174	
	0	6	LCPL	6324	
	0	5	LCPL	6531	
	0	1	SGT	6072	
	0	3	SGT	6114	
	0	3	SGT	6154	
	0	5	SGT	6324	
	0	1	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	6046	
	0	3	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	3	SSGT	6324	
	0	2	SSGT	6531	
HMLA-773 MCAS Marietta, 09431, FY03 Increment					
USMC	1	0	CAPT	7563	
	0	1	MSGT	6019	
	0	1	SSGT	8421	
	0	1	SSGT	8711	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	1	SSGT	0231	
HMLA-773 MCAS Marietta, 09431, FY04 Increment					
SMCR	1	0	CAPT	7565	
	0	2	LCPL	6324	
ACTIVITY TOTAL:	51	220			
HMLA-775 Det A MCAS Bell Chase, 09415					
USMC	1	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	CPL	6046	
	0	1	CPL	6048	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
ACDU	0	1	HM2	8406	
USMC	0	1	LCPL	0121	
	0	1	LCPL	0431	
	0	5	LCPL	6114	
	0	3	LCPL	6154	
	0	1	LCPL	6174	
	0	4	LCPL	6324	
	0	2	LCPL	6531	
	0	1	LCPL	7041	
	0	1	SGT	6114	
	0	1	SGT	6174	
	0	2	SGT	6324	
	0	1	SGT	6531	
	0	1	SSGT	6046	
	0	1	SSGT	6048	
	0	3	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
AR	2	0	CAPT	7563	
	1	0	CAPT	7565	
	2	0	MAJ	7565	
	0	1	CPL	0121	
	0	1	CPL	6046	
	0	1	CPL	6073	
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	2	CPL	6531	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AR	0	2	GYSGT	6114	
	0	1	GYSGT	6154	9954
	0	1	LCPL	6114	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	4	SGT	6154	
	0	1	SSGT	6531	
SMCR	4	0	CAPT	7565	
	2	0	LT	7563	
	6	0	LT	7565	
	1	0	MAJ	7563	
	0	3	CPL	6114	
	0	3	CPL	6154	
	0	1	CPL	6174	
	0	4	CPL	6324	
	0	1	CPL	6531	
	0	1	LCPL	0231	
	0	1	LCPL	6046	
	0	4	LCPL	6114	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
	0	3	LCPL	6324	
	0	2	LCPL	6531	
	0	1	SGT	6114	
	0	1	SGT	6324	
	0	1	SGT	6531	
	0	1	SSGT	0193	
	0	1	SSGT	6324	
HMLA-775 Det A MCAS Bell Chase, 09415, FY03 Increment					
USMC	1	0	CAPT	7563	
SMCR	1	0	CAPT	7563	
	0	1	CPL	6154	
HMLA-775 Det A MCAS Bell Chase, 09415, FY04 Increment					
SMCR	0	1	LCPL	6324	
ACTIVITY TOTAL:	22	97			
HMX-1 MCAS Quantico, 55173					
USMC	7	0	CAPT	7563	
	1	0	CAPT	7565	
	3	0	MAJ	7563	
	2	0	MAJ	7565	
	1	0	MAJ	9958	7563
	0	11	CPL	6154	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	CPL	6324	
	0	1	GYSGT	6124	
	0	1	GYSGT	6174	
	0	2	GYSGT	6324	
	0	2	LCPL	6124	
	0	8	LCPL	6154	
	0	4	LCPL	6324	
	0	1	SGT	6154	
	0	2	SGT	6324	
	0	1	SSGT	6114	
	0	2	SSGT	6154	
ACTIVITY TOTAL:	14	37			
HMLA-169 MCAS Camp Pendleton, 09202					
USMC	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	
	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	
	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	
	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-169 MCAS Camp Pendleton, 09202, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-169 MCAS Camp Pendleton, 09202, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMLA-169 MCAS Camp Pendleton, 09202, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			
HMLA-267 MCAS Camp Pendleton, 09159					
USMC	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	
	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	31	LCPL	6114	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	
	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	
	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-267 MCAS Camp Pendleton, 09159, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-267 MCAS Camp Pendleton, 09159, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	
HMLA-267 MCAS Camp Pendleton, 09159, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			
HMLA-367 MCAS Camp Pendleton, 09079					
USMC	9	0	CAPT	7563	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	
	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	
	0	1	MSGT	6391	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	
	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-367 MCAS Camp Pendleton, 09079, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-367 MCAS Camp Pendleton, 09079, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	
HMLA-367 MCAS Camp Pendleton, 09079, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			
HMLA-369 MCAS Camp Pendleton, 09361					
USMC	9	0	CAPT	7563	
	1	0	CAPT	7563	7577
	21	0	CAPT	7565	
	1	0	CWO2	0170	
	1	0	CWO2	6302	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
ACDU	1	0	LT	2102	
USMC	1	0	LT	6602	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	9	0	LT	7563	
	15	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	3	0	MAJ	7563	
	6	0	MAJ	7565	
	0	3	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	6042	
	0	6	CPL	6046	
	0	3	CPL	6048	
	0	3	CPL	6073	
	0	15	CPL	6114	
	0	15	CPL	6154	
	0	7	CPL	6174	
	0	19	CPL	6324	
	0	9	CPL	6531	
	0	6	GYSGT	6114	
	0	6	GYSGT	6154	
	0	3	GYSGT	6324	
	0	4	GYSGT	6531	
ACDU	0	1	HM1	8404	
	0	3	HM2	8406	
USMC	0	3	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	3	LCPL	0231	
	0	4	LCPL	0431	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	31	LCPL	6114	
	0	26	LCPL	6154	
	0	6	LCPL	6174	
	0	18	LCPL	6324	
	0	12	LCPL	6531	
	0	3	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	0193	
	0	1	MSGT	6391	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	3	SGT	6072	
	0	12	SGT	6114	
	0	12	SGT	6154	
	0	3	SGT	6174	
	0	1	SGT	6177	6174
	0	12	SGT	6324	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	6	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	1	SSGT	0231	
	0	4	SSGT	6046	
	0	3	SSGT	6048	
	0	9	SSGT	6114	
	0	3	SSGT	6154	
	0	3	SSGT	6174	
	0	6	SSGT	6324	
	0	3	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
HMLA-369 MCAS Camp Pendleton, 09361, FY03 Increment					
USMC	0	1	MSGT	6019	
HMLA-369 MCAS Camp Pendleton, 09361, FY04 Increment					
USMC	1	0	CAPT	7565	
	0	2	CPL	6154	
	0	1	CPL	6324	
HMLA-369 MCAS Camp Pendleton, 09361, FY05 Increment					
USMC	0	1	CPL	6154	
	0	1	CPL	6324	
	0	1	LCPL	6154	
ACTIVITY TOTAL:	73	318			
HMLA-775 MCAS Camp Pendleton, 55257					
USMC	1	0	CAPT	7563	7577
	1	0	CAPT	7565	
	1	0	CWO2	6502	
	1	0	CWO3	6004	
	0	2	CPL	0151	
	0	1	CPL	6042	
	0	1	CPL	6046	
	0	2	CPL	6048	
	0	1	CPL	6174	
	0	2	CPL	6324	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	9954
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
ACDU	0	1	HM2	8406	
USMC	0	2	LCPL	0121	
	0	1	LCPL	2111	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	LCPL	0431	
	0	1	LCPL	6072	
	0	5	LCPL	6114	
	0	5	LCPL	6154	
	0	1	LCPL	6174	
	0	5	LCPL	6324	
	0	3	LCPL	6531	
	0	2	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MSGT	6391	
	0	1	SGT	0431	
	0	1	SGT	6072	
	0	2	SGT	6114	
	0	4	SGT	6154	
	0	2	SGT	6174	
	0	1	SGT	6177	6174
	0	3	SGT	6324	
	0	2	SGT	6531	
	0	1	SSGT	6046	
	0	2	SSGT	6048	
	0	2	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	
	0	1	SSGT	6324	
AR	2	0	CAPT	7563	
	1	0	CAPT	7565	7577
	1	0	CWO2	0170	
	2	0	MAJ	7565	
	0	2	CPL	0121	
	0	1	CPL	6046	
	0	1	CPL	6073	
	0	3	CPL	6114	
	0	1	CPL	6154	
	0	1	CPL	6324	
	0	4	CPL	6531	
	0	1	GYSGT	6114	
	0	1	GYSGT	6154	9954
	0	1	GYSGT	6531	
	0	2	LCPL	6114	
	0	1	MSGT	0193	
	0	3	SGT	6114	
	0	1	SGT	6154	
	0	1	SGT	6324	
	0	1	SGT	6531	
	0	1	SSGT	0231	
	0	1	SSGT	6046	
	0	1	SSGT	6114	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
AR	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
SMCR	4	0	CAPT	7563	
	10	0	CAPT	7565	
	1	0	CWO2	6302	
SELRES	1	0	LT	2102	
SMCR	4	0	LT	7563	
	12	0	LT	7565	
	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
	2	0	MAJ	7563	
	3	0	MAJ	7565	
	0	2	CPL	6046	
	0	1	CPL	6073	
	0	7	CPL	6114	
	0	9	CPL	6154	
	0	4	CPL	6174	
	0	10	CPL	6324	
	0	2	CPL	6531	
	0	2	GYSGT	6114	
	0	2	GYSGT	6154	
	0	1	GYSGT	6324	
	0	1	GYSGT	6531	
SELRES	0	1	HM1	8404	
SMCR	0	1	LCPL	0151	
	0	2	LCPL	0231	
	0	2	LCPL	0431	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	1	LCPL	6072	
	0	14	LCPL	6114	
	0	13	LCPL	6154	
	0	3	LCPL	6174	
	0	6	LCPL	6324	
	0	5	LCPL	6531	
	0	1	LCPL	6672	
	0	1	SGT	6072	
	0	3	SGT	6114	
	0	3	SGT	6154	
	0	5	SGT	6324	
	0	1	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	6046	
	0	3	SSGT	6114	
	0	1	SSGT	6154	
	0	1	SSGT	6174	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	3	SSGT	6324	
	0	2	SSGT	6531	
HMLA-775 MCAS Camp Pendleton, 55257, FY03 Increment					
USMC	1	0	CAPT	7565	
	0	1	MSGT	6019	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
SMCR	1	0	CAPT	7563	
	0	1	CPL	6114	
HMLA-775 MCAS Camp Pendleton, 55257, FY04 Increment					
SMCR	1	0	CAPT	7565	
	0	2	LCPL	6324	
ACTIVITY TOTAL:	52	221			
HMT-303 MCAS Camp Pendleton, 55176					
USMC	1	0	CAPT	6002	
	1	0	CAPT	6004	
	1	0	CWO2	0170	
	1	0	CWO2	6502	
	1	0	CWO5	6302	
ACDU	1	0	LT	2102	
USMC	1	0	LTCOL	7563	
	1	0	LTCOL	7565	
ACDU	0	1	ADCS	0000	
	0	2	AD1	8380	
	0	2	AD2	8380	
	0	3	AD3	8380	
	0	3	ADAN	8380	
	0	2	AE1	8380	
	0	2	AE2	8380	
	0	2	AE3	8380	
	0	2	AEAN	8380	
	0	1	AMC	0000	
	0	2	AM1	8380	
	0	2	AM2	8380	
	0	4	AM3	8380	
	0	2	AMAN	8380	
	0	2	AT1	8380	
	0	2	AT2	8380	
	0	2	AT3	8380	
	0	2	ATAN	8380	
	0	1	AZ2	0000	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	CPL	0121	
	0	2	CPL	0151	
	0	1	CPL	0431	
	0	2	CPL	6034	6154
	0	1	CPL	6046	
	0	21	CPL	6114	
	0	4	CPL	6154	
	0	8	CPL	6174	
	0	10	CPL	6324	
	0	8	CPL	6531	
	0	1	CPL	7041	
	0	1	GYSGT	0193	
	0	2	GYSGT	6114	
	0	1	GYSGT	6174	
	0	2	GYSGT	6324	
	0	1	GYSGT	6531	
ACDU	0	1	HM2	8406	
	0	1	HM3	8404	
USMC	0	2	LCPL	0121	
	0	1	LCPL	2111	
	0	1	LCPL	5711	
	0	1	LCPL	6042	
	0	3	LCPL	6046	
	0	3	LCPL	6072	
	0	35	LCPL	6114	
	0	14	LCPL	6154	
	0	11	LCPL	6174	
	0	11	LCPL	6324	
	0	14	LCPL	6531	
	0	2	LCPL	7041	
	0	1	MGYSGT	6019	
	0	1	MGYSGT	6391	
	0	1	MSGT	6019	
ACDU	0	1	PN2	0000	
	0	1	PR3	0000	
	0	1	PRAN	0000	
USMC	0	1	SGT	0151	
	0	1	SGT	6046	
	0	2	SGT	6048	
	0	4	SGT	6114	
	0	2	SGT	6174	
	0	5	SGT	6324	
	0	3	SGT	6531	
	0	1	SGTMAJ	9999	
	0	1	SSGT	0193	
	0	2	SSGT	6046	
	0	1	SSGT	6048	
	0	4	SSGT	6114	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	6	SSGT	6154	
	0	2	SSGT	6174	
	0	6	SSGT	6324	
	0	4	SSGT	6531	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
ACDU	0	1	YN1	0000	
HMT-303 MCAS Camp Pendleton, 55176, FY02 Increment					
USMC	1	0	CWO3	6502	
HMT-303 MCAS Camp Pendleton, 55176, FY04 Increment					
USMC	0	3	CPL	6154	
	0	3	CPL	6531	
ACTIVITY TOTAL:	9	267			
FLEET SUPPORT ACTIVITIES - NAVY					
Flag and Staff Allow, US LANT FLT and NAVEUR, 00000					
USMC	0	1	GYSGT	6324	
ACTIVITY TOTAL:	0	1			
NAMTRAGRU HQ Pensacola, 62229					
USMC	0	1	SSGT	6114	
ACTIVITY TOTAL:	0	1			
Special Assignment Navy Dept, Arlington, 31201					
USMC	1	0	LTCOL	9957	7565
	1	0	LTCOL	9958	7563
	4	0	LTCOL	9958	7565
	1	0	MAJ	7565	9960
	0	1	GYSGT	6114	9960
ACTIVITY TOTAL:	7	1			
Flag and Staff Allow, US PAC FLT and NAVCENT, 00000					
USMC	0	1	GYSGT	6324	
ACTIVITY TOTAL:	0	1			
FLEET SUPPORT ACTIVITIES - USMC					
Aviation Dept HQMC, Arlington, 00027					
USMC	1	0	LTCOL	9958	7565

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	1	0			
Defense Logistics Agency Alexandria, 45947					
USMC	1	0	CAPT	7565	
	0	1	SSGT	6154	
ACTIVITY TOTAL:	1	1			
MAD NAS Patuxent River, 67356					
USMC	1	0	CAPT	7563	7595
	1	0	MAJ	7565	7595
	0	1	GYSGT	6174	
ACTIVITY TOTAL:	2	1			
MAG-26 MCAS New River, 09506					
USMC	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MAG-29 MCAS New River, 52844					
USMC	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MAG-42 MCAS Marietta, 67236					
SMCR	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MAG-49 NAS Willow Grove, 67256					
SMCR	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MALS-26 (HMLA-167 Augment), 09107					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	
ACTIVITY TOTAL:	0	78			
MALS-26 MCAS New River, 09167					
USMC	0	3	CPL	6124	
	0	1	CPL	6124	6023
	0	1	GYSGT	6124	
	0	5	LCPL	6124	
	0	2	SGT	6124	
	0	1	SGT	6124	6023
	0	1	SSGT	6124	
ACTIVITY TOTAL:	0	14			
MALS-29 (HMLA-269 Augment), 52841					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	0	78			
MALS-29 MCAS New River, 52841					
USMC	0	3	CPL	6124	
	0	1	CPL	6124	6023
	0	1	GYSGT	6124	
	0	5	LCPL	6124	
	0	2	SGT	6124	
	0	1	SGT	6124	6023
	0	1	SSGT	6124	
ACTIVITY TOTAL:	0	14			
MALS-39 (HMLA-775 Augment), 09808					
USMC	0	1	CPL	6062	
	0	1	CPL	6174	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	1	LCPL	6043	6092
	0	1	LCPL	6062	
	0	1	LCPL	6072	
	0	1	LCPL	6132	
	0	1	LCPL	6413	
	0	1	LCPL	6422	6412
	0	2	LCPL	6492	
	0	2	LCPL	6541	
	0	1	LCPL	6672	
	0	1	SGT	6092	6033
	0	2	SGT	6124	
	0	1	SGT	6413	
	0	1	SGT	6672	
	0	1	SSGT	6124	
AR	0	1	CPL	6048	
	0	1	SGT	6541	
SMCR	0	1	CPL	6048	
	0	1	CPL	6062	
	0	3	CPL	6092	6033
	0	2	CPL	6124	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	1	LCPL	6062	
	0	1	LCPL	6132	
	0	1	LCPL	6412	6422

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	1	LCPL	6413	
	0	2	LCPL	6433	
	0	2	LCPL	6492	
	0	4	LCPL	6541	
	0	1	LCPL	6672	
	0	1	SGT	6413	
	0	1	SGT	6541	
	0	1	SGT	6672	
	0	1	SSGT	6092	6043
	0	1	SSGT	6124	
ACTIVITY TOTAL:	0	54			
MALS-42 MCAS Marietta, 09513					
USMC	0	1	CPL	6124	6023
SMCR	0	1	CPL	6124	6023
	0	1	GYSGT	6124	
	0	2	SGT	6124	6023
	0	1	SSGT	6124	6023
ACTIVITY TOTAL:	0	6			
MALS-49 (HMLA-773 Det A Augment), 55555					
USMC	0	1	CPL	6048	
	0	1	CPL	6062	
	0	1	CPL	6073	
	0	1	CPL	6124	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6541	
	0	1	LCPL	6043	6092
	0	1	LCPL	6132	
	0	1	LCPL	6422	
	0	2	LCPL	6492	
	0	2	LCPL	6541	
	0	1	LCPL	6672	
	0	1	SGT	6092	6033
	0	1	SGT	6124	
	0	1	SGT	6413	
	0	1	SGT	6672	
	0	1	SSGT	6124	
AR	0	1	SGT	6072	
	0	1	SGT	6541	
SMCR	0	1	CPL	6092	6033
	0	1	LCPL	6062	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
SMCR	0	1	LCPL	6413	
	0	1	LCPL	6433	
	0	1	LCPL	6541	
ACTIVITY TOTAL:	0	28			
MALS-49 Fort Stewart, 55555					
SMCR	0	1	GYSGT	6124	
ACTIVITY TOTAL:	0	1			
MARCOR Asgn Allied/UN Commands, 00000					
USMC	2	0	CAPT	7565	
ACTIVITY TOTAL:	2	0			
MARCOR Asgn USA/USAF, 00000					
USMC	1	0	CAPT	9957	7563
	0	1	GYSGT	6114	
ACTIVITY TOTAL:	1	1			
MASD Andrews AFB, 65705					
USMC	0	1	SGT	6174	
ACTIVITY TOTAL:	0	1			
MC Personnel Dept of Navy, 00000					
USMC	1	0	CAPT	7565	
	0	2	GYSGT	6114	
	0	1	GYSGT	6174	
	0	1	SSGT	6154	
	0	1	SSGT	6324	
ACTIVITY TOTAL:	1	5			
MC Systems Command Quantico, 00262					
USMC	1	0	LTCOL	7565	
ACTIVITY TOTAL:	1	0			
MCCDC Quantico, 00264					
USMC	1	0	MAJ	7565	7557
ACTIVITY TOTAL:	1	0			
Site Support Belle Chase, 82191					
USMC	1	0	LTCOL	7565	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	1	0			
US Joint Forces Command and Sub (USJFCOM), 00000					
USMC	1	0	MAJ	7565	
ACTIVITY TOTAL:	1	0			
H&HS MCAS Camp Pendleton, 67604					
USMC	0	1	CPL	6114	
	0	1	LCPL	6114	
ACTIVITY TOTAL:	0	2			
H&HS MCAS Yuma, 62974					
USMC	6	0	CAPT	7563	
	1	0	CAPT	7596	7563
	1	0	MAJ	7563	
	0	3	CPL	6114	
	0	1	CPL	6324	
	0	1	GYSGT	6114	
	0	1	GYSGT	6324	
	0	2	LCPL	6114	
	0	2	LCPL	6154	
	0	4	LCPL	6174	
	0	1	LCPL	6324	
	0	1	SGT	6154	
	0	4	SGT	6174	
	0	1	SGT	6324	
	0	2	SSGT	6114	
	0	2	SSGT	6154	
	0	1	SSGT	6154	9954
	0	1	SSGT	6324	
ACTIVITY TOTAL:	8	27			
MAD China Lake, 67852					
USMC	1	0	CAPT	7565	7577
	1	0	CAPT	7595	7595
	1	0	CAPT	9957	7565
	1	0	MAJ	7565	7595
	0	2	CPL	6114	
	0	2	CPL	6154	
	0	1	GYSGT	6324	
	0	1	SGT	6114	
	0	2	SSGT	6324	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	4	8			
MAG-16 MCAS Miramar, 09243					
USMC	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MAG-36 MCAS Futenma, 09260					
USMC	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MAG-39 MCAS Camp Pendleton, 09304					
USMC	0	1	GYSGT	6174	
ACTIVITY TOTAL:	0	1			
MALS-16 MCAS Miramar, 55583					
USMC	0	1	GYSGT	6124	
ACTIVITY TOTAL:	0	1			
MALS-36 MCAS Futenma, 09136					
USMC	0	2	CPL	6124	
	0	1	CPL	6124	6023
	0	1	GYSGT	6124	
	0	8	LCPL	6124	
	0	1	SSGT	6124	
	0	1	SSGT	6124	6023
ACTIVITY TOTAL:	0	14			
MALS-39 (HMLA-169 Augment), 09808					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	
ACTIVITY TOTAL:	0	78			
MALS-39 (HMLA-267 Augment), 09808					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	
ACTIVITY TOTAL:	0	78			
MALS-39 (HMLA-367 Augment), 09808					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	
ACTIVITY TOTAL:	0	78			
MALS-39 (HMLA-369 Augment), 09808					
USMC	0	3	CPL	6048	
	0	3	CPL	6062	
	0	3	CPL	6124	
	0	3	CPL	6433	
	0	3	CPL	6483	
	0	6	CPL	6541	
	0	6	LCPL	6043	6092
	0	3	LCPL	6062	
	0	3	LCPL	6132	
	0	3	LCPL	6413	
	0	1	LCPL	6422	
	0	2	LCPL	6422	6412
	0	3	LCPL	6433	
	0	6	LCPL	6492	
	0	9	LCPL	6541	
	0	3	LCPL	6672	
	0	3	SGT	6092	6033
	0	3	SGT	6124	
	0	3	SGT	6413	
	0	3	SGT	6541	
	0	3	SGT	6672	
	0	3	SSGT	6124	
ACTIVITY TOTAL:	0	78			
MALS-39 (HMT-303 Augment), 09808					
ACDU	0	1	AD1	6417	
	0	1	AD2	6417	
	0	1	AK2	0000	
	0	1	AM3	7212	
	0	1	AM2	7232	
USMC	0	1	CPL	6043	6092
	0	1	CPL	6048	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
USMC	0	1	CPL	6062	
	0	2	CPL	6124	
	0	1	CPL	6132	
	0	2	CPL	6413	
	0	3	CPL	6423	
	0	2	CPL	6433	
	0	1	CPL	6483	
	0	2	CPL	6492	
	0	2	LCPL	6048	
	0	1	LCPL	6062	
	0	7	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	1	LCPL	6132	
	0	3	LCPL	6412	
	0	3	LCPL	6413	
	0	3	LCPL	6483	
	0	3	LCPL	6541	
	0	1	SGT	6062	
	0	2	SGT	6072	
	0	1	SGT	6092	6033
	0	1	SGT	6124	
	0	1	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6492	
	0	3	SGT	6541	
	0	2	SSGT	6414	
ACTIVITY TOTAL:	0	61			
MALS-39 MCAS Camp Pendleton, 09808					
USMC	0	3	CPL	6124	
	0	3	CPL	6124	6023
	0	1	GYSGT	6124	
	0	5	LCPL	6124	
	0	2	SGT	6124	
	0	3	SGT	6124	6023
	0	1	SSGT	6124	
	0	1	SSGT	6124	6023
ACTIVITY TOTAL:	0	19			
MAWTS-1 Yuma, 57079					
USMC	3	0	CAPT	7563	
	3	0	CAPT	7565	
	1	0	MAJ	7563	
	1	0	MAJ	7565	
	1	0	MAJ	9958	7565

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
ACTIVITY TOTAL:	9	0			
MCAGCC, Twentynine Palms, 67399					
USMC	1	0	MAJ	7565	
ACTIVITY TOTAL:	1	0			
MCRD San Diego, 00243					
USMC	0	1	GYSGT	6114	
ACTIVITY TOTAL:	0	1			
Site Support Camp Pendleton, 00000					
USMC	1	0	LTCOL	7565	
ACTIVITY TOTAL:	1	0			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - ACDU													
LT	2102	7		0		0		0		0		0	
ADCS	0000		1		0		0		0		0		0
AD1	8380		2		0		0		0		0		0
AD2	8380		2		0		0		0		0		0
AD3	8380		3		0		0		0		0		0
ADAN	8380		3		0		0		0		0		0
AE1	8380		2		0		0		0		0		0
AE2	8380		2		0		0		0		0		0
AE3	8380		2		0		0		0		0		0
AEAN	8380		2		0		0		0		0		0
AMC	0000		1		0		0		0		0		0
AM1	8380		2		0		0		0		0		0
AM2	8380		2		0		0		0		0		0
AM3	8380		4		0		0		0		0		0
AMAN	8380		2		0		0		0		0		0
AT1	8380		2		0		0		0		0		0
AT2	8380		2		0		0		0		0		0
AT3	8380		2		0		0		0		0		0
ATAN	8380		2		0		0		0		0		0
AZ2	0000		1		0		0		0		0		0
HM1	8404		7		0		0		0		0		0
HM2	8406		23		0		0		0		0		0
HM3	8404		1		0		0		0		0		0
PN2	0000		1		0		0		0		0		0
PR3	0000		1		0		0		0		0		0
PRAN	0000		1		0		0		0		0		0
YN1	0000		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SELRES													
LT	2100	1		0		0		0		0		0	
LT	2102	1		0		0		0		0		0	
HM1	8404		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - USMC													
CAPT	6002	1		0		0		0		0		0	
CAPT	6004	1		0		0		0		0		0	
CAPT	7563	65		0		0		3		0		0	
CAPT	7563 7577	7		0		0		0		0		0	
CAPT	7565	131		0		0		1		6		0	
CWO2	0170	7		0		0		0		0		0	
CWO2	6302	6		0		0		0		0		0	
CWO2	6502	9		0		0		0		0		0	
CWO3	6004	8		0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
CWO3	6502	0		0		1		0		0		0	
CWO5	6302	1		0		0		0		0		0	
LT	6602	6		0		0		0		0		0	
LT	7563	54		0		0		0		0		0	
LT	7565	90		0		0		0		0		0	
LTCOL	7563	7		0		0		0		0		0	
LTCOL	7565	7		0		0		0		0		0	
MAJ	7563	21		0		0		0		0		0	
MAJ	7565	39		0		0		0		0		0	
MAJ	9958 7563	1		0		0		0		0		0	
CPL	0121		20		0		0		0		0		0
CPL	0151		11		0		0		0		0		0
CPL	0431		1		0		0		0		0		0
CPL	6034 6154		2		0		0		0		0		0
CPL	6042		8		0		0		0		0		0
CPL	6046		43		0		0		0		0		0
CPL	6048		24		0		0		0		0		0
CPL	6073		18		0		0		0		0		0
CPL	6114		114		0		0		0		0		0
CPL	6154		108		0		0		0		15		6
CPL	6174		54		0		0		0		0		0
CPL	6324		134		0		0		0		6		6
CPL	6531		64		0		0		0		3		0
CPL	7041		1		0		0		0		0		0
GYSGT	0193		1		0		0		0		0		0
GYSGT	6114		41		0		0		0		0		0
GYSGT	6124		1		0		0		0		0		0
GYSGT	6154		38		0		0		0		0		0
GYSGT	6154 9954		1		0		0		0		0		0
GYSGT	6174		2		0		0		0		0		0
GYSGT	6324		26		0		0		0		0		0
GYSGT	6531		28		0		0		0		0		0
LCPL	0121		26		0		0		0		0		0
LCPL	0151		6		0		0		0		0		0
LCPL	2111		9		0		0		0		0		0
LCPL	0231		18		0		0		0		0		0
LCPL	0431		28		0		0		0		0		0
LCPL	5711		1		0		0		0		0		0
LCPL	6042		7		0		0		0		0		0
LCPL	6046		21		0		0		0		0		0
LCPL	6072		24		0		0		0		0		0
LCPL	6114		242		0		0		0		0		0
LCPL	6124		2		0		0		0		0		0
LCPL	6154		193		0		0		0		0		6
LCPL	6174		51		0		0		0		0		0
LCPL	6324		141		0		0		0		0		0
LCPL	6531		96		0		0		0		0		0
LCPL	7041		26		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MGYSGT	6019		9		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MSGT	0193		6		0		0		0		0		0
MSGT	6019		1		0		0		8		0		0
MSGT	6391		8		0		0		0		0		0
SGT	0151		8		0		0		0		0		0
SGT	0431		8		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6048		2		0		0		0		0		0
SGT	6072		20		0		0		0		0		0
SGT	6114		82		0		0		0		0		0
SGT	6154		84		0		0		0		0		0
SGT	6174		26		0		0		0		0		0
SGT	6177 6174		8		0		0		0		0		0
SGT	6324		89		0		0		0		0		0
SGT	6531		45		0		0		0		0		0
SGTMAJ	9999		7		0		0		0		0		0
SSGT	0193		7		0		0		0		0		0
SSGT	0231		6		0		0		0		0		0
SSGT	6046		29		0		0		0		0		0
SSGT	6048		25		0		0		0		0		0
SSGT	6114		68		0		0		0		0		0
SSGT	6154		30		0		0		0		0		0
SSGT	6174		24		0		0		0		0		0
SSGT	6324		46		0		0		0		0		0
SSGT	6531		22		0		0		0		0		0
SSGT	7041		7		0		0		0		0		0
SSGT	8421		7		0		0		2		0		0
SSGT	8711		7		0		0		2		0		0
USMC OPERATIONAL ACTIVITIES - AR													
CAPT	7563		7		0		0		0		0		0
CAPT	7565		3		0		0		0		0		0
CAPT	7565 7577		1		0		0		0		0		0
CWO2	0170		2		0		0		0		0		0
MAJ	7565		7		0		0		0		0		0
CPL	0121		6		0		0		0		0		0
CPL	6046		2		0		0		0		0		0
CPL	6073		3		0		0		0		0		0
CPL	6114		7		0		0		0		0		0
CPL	6154		5		0		0		0		0		0
CPL	6324		2		0		0		0		0		0
CPL	6531		10		0		0		0		0		0
GYSGT	6114		5		0		0		0		0		0
GYSGT	6154		1		0		0		0		0		0
GYSGT	6154 9954		5		0		0		0		0		0
GYSGT	6531		3		0		0		0		0		0
LCPL	6114		5		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MSGT	0193		2		0		0		0		0		0
SGT	6046		1		0		0		0		0		0
SGT	6072		1		0		0		0		0		0
SGT	6114		9		0		0		0		0		0
SGT	6154		7		0		0		0		0		0
SGT	6324		3		0		0		0		0		0
SGT	6531		2		0		0		0		0		0
SSGT	0193		1		0		0		0		0		0
SSGT	0231		2		0		0		0		0		0
SSGT	6046		3		0		0		0		0		0
SSGT	6114		2		0		0		0		0		0
SSGT	6531		2		0		0		0		0		0
SSGT	7041		2		0		0		0		0		0
SSGT	8421		2		0		0		0		0		0
SSGT	8711		2		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SMCR													
CAPT	7563		7		0		0		2		0		0
CAPT	7563 7577		1		0		0		0		0		0
CAPT	7565		28		0		0		0		2		0
CWO2	6302		2		0		0		0		0		0
LT	7563		12		0		0		0		0		0
LT	7565		36		0		0		0		0		0
LTCOL	7563		2		0		0		0		0		0
LTCOL	7565		2		0		0		0		0		0
MAJ	7563		6		0		0		0		0		0
MAJ	7565		6		0		0		0		0		0
CPL	6046		3		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6114		21		0		0		1		0		0
CPL	6154		22		0		0		1		0		0
CPL	6174		11		0		0		0		0		0
CPL	6324		28		0		0		0		0		0
CPL	6531		6		0		0		0		0		0
GYSGT	6114		4		0		0		0		0		0
GYSGT	6154		4		0		0		0		0		0
GYSGT	6324		2		0		0		0		0		0
GYSGT	6531		2		0		0		0		0		0
LCPL	0121		1		0		0		0		0		0
LCPL	0151		2		0		0		0		0		0
LCPL	0231		5		0		0		0		0		0
LCPL	0431		4		0		0		0		0		0
LCPL	6042		2		0		0		0		0		0
LCPL	6046		6		0		0		0		0		0
LCPL	6072		2		0		0		0		0		0
LCPL	6114		35		0		0		0		0		0
LCPL	6154		37		0		0		0		0		0
LCPL	6174		8		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
LCPL	6324			18		0		0		0		6		0
LCPL	6531			14		0		0		0		0		0
LCPL	6672			1		0		0		0		0		0
SGT	6072			2		0		0		0		0		0
SGT	6114			9		0		0		0		0		0
SGT	6154			6		0		0		0		0		0
SGT	6324			11		0		0		0		0		0
SGT	6531			4		0		0		0		0		0
SGTMAJ	9999			2		0		0		0		0		0
SSGT	0193			1		0		0		0		0		0
SSGT	0231			0		0		0		1		0		0
SSGT	6046			2		0		0		0		0		0
SSGT	6114			7		0		0		0		0		0
SSGT	6154			2		0		0		0		0		0
SSGT	6174			2		0		0		0		0		0
SSGT	6324			8		0		0		0		0		0
SSGT	6531			4		0		0		0		0		0
NAVY FLEET SUPPORT ACTIVITIES - USMC														
LTCOL	9957	7565	1		0		0		0		0		0	
LTCOL	9958	7563	1		0		0		0		0		0	
LTCOL	9958	7565	4		0		0		0		0		0	
MAJ	7565	9960	1		0		0		0		0		0	
GYSGT	6114	9960		1		0		0		0		0		0
GYSGT	6324			2		0		0		0		0		0
SSGT	6114			1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - ACDU														
AD1	6417			1		0		0		0		0		0
AD2	6417			1		0		0		0		0		0
AK2	0000			1		0		0		0		0		0
AM3	7212			1		0		0		0		0		0
AM2	7232			1		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC														
CAPT	7563		9		0		0		0		0		0	
CAPT	7563	7595	1		0		0		0		0		0	
CAPT	7565		7		0		0		0		0		0	
CAPT	7565	7577	1		0		0		0		0		0	
CAPT	7595	7595	1		0		0		0		0		0	
CAPT	7596	7563	1		0		0		0		0		0	
CAPT	9957	7563	1		0		0		0		0		0	
CAPT	9957	7565	1		0		0		0		0		0	
LTCOL	7565		3		0		0		0		0		0	
LTCOL	9958	7565	1		0		0		0		0		0	
MAJ	7563		2		0		0		0		0		0	
MAJ	7565		3		0		0		0		0		0	
MAJ	7565	7557	1		0		0		0		0		0	

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MAJ	7565	7595	2		0		0		0		0		0	
MAJ	9958	7565	1		0		0		0		0		0	
CPL	6043	6092		1		0		0		0		0		0
CPL	6048			20		0		0		0		0		0
CPL	6062			21		0		0		0		0		0
CPL	6073			1		0		0		0		0		0
CPL	6114			6		0		0		0		0		0
CPL	6124			32		0		0		0		0		0
CPL	6124	6023		7		0		0		0		0		0
CPL	6132			1		0		0		0		0		0
CPL	6154			2		0		0		0		0		0
CPL	6174			1		0		0		0		0		0
CPL	6324			1		0		0		0		0		0
CPL	6413			2		0		0		0		0		0
CPL	6423			3		0		0		0		0		0
CPL	6433			22		0		0		0		0		0
CPL	6483			21		0		0		0		0		0
CPL	6492			2		0		0		0		0		0
CPL	6541			40		0		0		0		0		0
GYSGT	6114			5		0		0		0		0		0
GYSGT	6124			5		0		0		0		0		0
GYSGT	6174			7		0		0		0		0		0
GYSGT	6324			2		0		0		0		0		0
LCPL	6043	6092		38		0		0		0		0		0
LCPL	6048			2		0		0		0		0		0
LCPL	6062			20		0		0		0		0		0
LCPL	6072			8		0		0		0		0		0
LCPL	6073			2		0		0		0		0		0
LCPL	6092			2		0		0		0		0		0
LCPL	6114			3		0		0		0		0		0
LCPL	6124			23		0		0		0		0		0
LCPL	6132			21		0		0		0		0		0
LCPL	6154			2		0		0		0		0		0
LCPL	6174			4		0		0		0		0		0
LCPL	6324			1		0		0		0		0		0
LCPL	6412			3		0		0		0		0		0
LCPL	6413			22		0		0		0		0		0
LCPL	6422			7		0		0		0		0		0
LCPL	6422	6412		13		0		0		0		0		0
LCPL	6433			18		0		0		0		0		0
LCPL	6483			3		0		0		0		0		0
LCPL	6492			40		0		0		0		0		0
LCPL	6541			61		0		0		0		0		0
LCPL	6672			20		0		0		0		0		0
SGT	6062			1		0		0		0		0		0
SGT	6072			2		0		0		0		0		0
SGT	6092	6033		21		0		0		0		0		0
SGT	6114			1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
SGT	6124		28		0		0		0		0		0
SGT	6124 6023		5		0		0		0		0		0
SGT	6154		1		0		0		0		0		0
SGT	6174		5		0		0		0		0		0
SGT	6324		1		0		0		0		0		0
SGT	6413		20		0		0		0		0		0
SGT	6433		1		0		0		0		0		0
SGT	6483		1		0		0		0		0		0
SGT	6492		1		0		0		0		0		0
SGT	6541		21		0		0		0		0		0
SGT	6672		20		0		0		0		0		0
SSGT	6114		2		0		0		0		0		0
SSGT	6124		24		0		0		0		0		0
SSGT	6124 6023		2		0		0		0		0		0
SSGT	6154		4		0		0		0		0		0
SSGT	6154 9954		1		0		0		0		0		0
SSGT	6324		4		0		0		0		0		0
SSGT	6414		2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
CPL	6048		1		0		0		0		0		0
CPL	6073		0		0		0		0		0		0
SGT	6072		1		0		0		0		0		0
SGT	6541		2		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR													
CPL	6048		1		0		0		0		0		0
CPL	6062		1		0		0		0		0		0
CPL	6073		0		0		0		0		0		0
CPL	6092 6033		4		0		0		0		0		0
CPL	6124		2		0		0		0		0		0
CPL	6124 6023		1		0		0		0		0		0
CPL	6433		1		0		0		0		0		0
CPL	6483		1		0		0		0		0		0
CPL	6541		2		0		0		0		0		0
GYSGT	6124		2		0		0		0		0		0
GYSGT	6174		2		0		0		0		0		0
LCPL	6062		2		0		0		0		0		0
LCPL	6132		1		0		0		0		0		0
LCPL	6412 6422		1		0		0		0		0		0
LCPL	6413		2		0		0		0		0		0
LCPL	6433		3		0		0		0		0		0
LCPL	6492		2		0		0		0		0		0
LCPL	6531		0		0		0		0		0		0
LCPL	6541		5		0		0		0		0		0
LCPL	6672		1		0		0		0		0		0
SGT	6124 6023		2		0		0		0		0		0
SGT	6413		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
SGT	6541		1		0		0		0		0		0
SGT	6672		1		0		0		0		0		0
SSGT	6092 6043		1		0		0		0		0		0
SSGT	6124		1		0		0		0		0		0
SSGT	6124 6023		1		0		0		0		0		0

SUMMARY TOTALS:

USMC OPERATIONAL ACTIVITIES - ACDU											
7	74	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SELRES											
2	1	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - USMC											
461	2314	0	0	1	0	4	12	6	24	0	18
USMC OPERATIONAL ACTIVITIES - AR											
20	95	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR											
102	300	0	0	0	0	2	3	2	6	0	0
NAVY FLEET SUPPORT ACTIVITIES - USMC											
7	4	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - ACDU											
	5		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC											
35	683	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - AR											
	4		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - SMCR											
	42		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
GRAND TOTALS:													
NAVY - USMC		7	4	0	0	0	0	0	0	0	0	0	0
USMC - ACDU		7	79	0	0	0	0	0	0	0	0	0	0
USMC - SELRES		2	1	0	0	0	0	0	0	0	0	0	0
USMC - USMC		496	2997	0	0	1	0	4	12	6	24	0	18
USMC - AR		20	99	0	0	0	0	0	0	0	0	0	0
USMC - SMCR		102	342	0	0	0	0	2	3	2	6	0	0

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - USMC					
HMLA-167 MCAS New River, 09868, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			
HMLA-269 MCAS New River, 08998, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			
HMLA-773 Det A NAS Willow Grove, 09415, FY03 Increment					
AR	1	0	CAPT	7563	
ACTIVITY TOTAL:	1	0			
HMLA-773 MCAS Marietta, 09431, FY03 Increment					
USMC	0	1	MGYSGT	6019	
AR	1	0	CAPT	7563	
	0	1	SSGT	0231	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
ACTIVITY TOTAL:	1	4			
HMLA-775 Det A MCAS Bell Chase, 09415, FY03 Increment					
AR	2	0	CAPT	7563	
	0	1	CPL	6154	
ACTIVITY TOTAL:	2	1			
HMLA-169 MCAS Camp Pendleton, 09202, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			
HMLA-267 MCAS Camp Pendleton, 09159, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			
HMLA-367 MCAS Camp Pendleton, 09079, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			

II.A.2.b. BILLETS TO BE DELETED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
HMLA-369 MCAS Camp Pendleton, 09361, FY03 Increment					
USMC	0	1	MGYSGT	6019	
ACTIVITY TOTAL:	0	1			
HMLA-775 MCAS Camp Pendleton, 55257, FY03 Increment					
USMC	0	1	MGYSGT	6019	
AR	2	0	CAPT	7563	
	1	0	CAPT	7565	
	0	1	CPL	6114	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
ACTIVITY TOTAL:	3	4			
HMT-303 MCAS Camp Pendleton, 55176, FY02 Increment					
USMC	1	0	CWO2	6502	
HMT-303 MCAS Camp Pendleton, 55176, FY04 Increment					
USMC	0	1	LCPL	6531	
ACTIVITY TOTAL:	1	1			

II.A.2.c. TOTAL BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
USMC OPERATIONAL ACTIVITIES - USMC													
CWO2	6502	1		0		-1		0		0		0	
LCPL	6531		14		0		0		0		-1		0
MGYSGT	6019		8		0		0		-8		0		0
USMC OPERATIONAL ACTIVITIES - AR													
CAPT	7563	7		0		0		-6		0		0	
CAPT	7565	0		0		0		-1		0		0	
CPL	6114		3		0		0		-1		0		0
CPL	6154		2		0		0		-1		0		0
SSGT	0231		1		0		0		-1		0		0
SSGT	8421		2		0		0		-2		0		0
SSGT	8711		2		0		0		-2		0		0

SUMMARY TOTALS:

USMC OPERATIONAL ACTIVITIES - USMC													
	1	22	0	0	-1	0	0	-8	0	-1	0	0
USMC OPERATIONAL ACTIVITIES - AR													
	7	10	0	0	0	0	-7	-7	0	0	0	0

GRAND TOTALS:

USMC - USMC													
	1	22	0	0	-1	0	0	-8	0	-1	0	0
USMC - AR													
	7	10	0	0	0	0	-7	-7	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: HMT-303 FREST, MCAS Camp Pendleton, 55176														
INSTRUCTOR BILLETS														
ACDU														
AD2	9502	8380	0	1	0	1	0	0	0	0	0	0	0	0
AE2	9502	8215	0	1	0	1	0	0	0	0	0	0	0	0
AM1	8215	9502	0	1	0	1	0	0	0	0	0	0	0	0
AM2	9502	8215	0	1	0	1	0	0	0	0	0	0	0	0
AM2	8215	9502	0	1	0	1	0	0	0	0	0	0	0	0
AT2	9502	8215	0	1	0	1	0	0	0	0	0	0	0	0
USMC														
CPL	6154		0	1	0	1	0	0	0	0	0	0	0	0
CPL	6174		0	4	0	4	0	0	0	0	0	0	0	0
CPL	6324		0	2	0	2	0	0	0	0	0	0	0	0
CPL	6531		0	7	0	7	0	0	0	0	0	0	0	0
GYSGT	6114		0	1	0	1	0	0	0	0	0	0	0	0
GYSGT	6124		0	1	0	1	0	0	0	0	0	0	0	0
GYSGT	6174		0	2	0	2	0	0	0	0	0	0	0	0
GYSGT	6324		0	1	0	1	0	0	0	0	0	0	0	0
GYSGT	6531		0	1	0	1	0	0	0	0	0	0	0	0
SGT	6114		0	21	0	21	0	0	0	0	0	0	0	0
SGT	6124		0	1	0	1	0	0	0	0	0	0	0	0
SGT	6174		0	3	0	3	0	0	0	0	0	0	0	0
SGT	6324		0	13	0	13	0	0	0	0	0	0	0	0
SGT	6433		0	2	0	2	0	0	0	0	0	0	0	0
SSGT	6114		0	6	0	6	0	0	0	0	0	0	0	0
SSGT	6154		0	4	0	4	0	0	0	0	0	0	0	0
SSGT	6324		0	6	0	6	0	0	0	0	0	0	0	0
SSGT	6434		0	6	0	6	0	0	0	0	0	0	0	0
SSGT	6531		0	2	0	2	0	0	0	0	0	0	0	0
SUPPORT BILLETS														
USMC														
CAPT	6502		1	0	1	0	0	0	0	0	0	0	0	0
CPL	4066		0	1	0	1	0	0	0	0	0	0	0	0
CPL	6042		0	1	0	1	0	0	0	0	0	0	0	0
CPL	6046		0	1	0	1	0	0	0	0	0	0	0	0
CPL	6672		0	1	0	1	0	0	0	0	0	0	0	0
CWO3	6004		1	0	1	0	0	0	0	0	0	0	0	0
CWO3	6302		1	0	1	0	0	0	0	0	0	0	0	0
GYSGT	0193		0	1	0	1	0	0	0	0	0	0	0	0
GYSGT	6124		0	1	0	1	0	0	0	0	0	0	0	0
GYSGT	6324		0	2	0	2	0	0	0	0	0	0	0	0
LCPL	0121		0	3	0	3	0	0	0	0	0	0	0	0
LCPL	0151		0	1	0	1	0	0	0	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG	PNEC/SNEC	PFYs		CFY01		FY02		FY03		FY04		FY05	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
LCPL	4066	0	1	0	1	0	0	0	0	0	0	0	0
LCPL	6042	0	1	0	1	0	0	0	0	0	0	0	0
LCPL	6672	0	1	0	1	0	0	0	0	0	0	0	0
LCPL	7041	0	1	0	1	0	0	0	0	0	0	0	0
MSGT	6019	0	1	0	1	0	0	0	0	0	0	0	0
MSGT	6591	0	1	0	1	0	0	0	0	0	0	0	0
SGT	6046	0	1	0	1	0	0	0	0	0	0	0	0
SGT	6114	0	1	0	1	0	0	0	0	0	0	0	0
SSGT	6114	0	2	0	2	0	0	0	0	0	0	0	0
SSGT	6324	0	1	0	1	0	0	0	0	0	0	0	0
SSGT	6531	0	1	0	1	0	0	0	0	0	0	0	0
TOTAL:		3	114	3	114	0	0	0	0	0	0	0	0

TRAINING ACTIVITY, LOCATION, UIC: HMT-303 FRS, MCAS Camp Pendleton, 55176

INSTRUCTOR BILLETS

ACDU													
AD2	9502		0	0	0	0	0	1	0	1	0	1	0	1
AE2	9502		0	0	0	0	0	1	0	1	0	1	0	1
AE2	9502	8215	0	0	0	0	0	1	0	1	0	1	0	1
AM1	8215	9502	0	0	0	0	0	1	0	1	0	1	0	1
AM2	9502		0	0	0	0	0	1	0	1	0	1	0	1
AM2	8215	9502	0	0	0	0	0	1	0	1	0	1	0	1
AT2	9502		0	0	0	0	0	1	0	1	0	1	0	1
AT2	9502	8215	0	0	0	0	0	1	0	1	0	1	0	1
LCDR	1310		1	0	1	0	1	0	1	0	1	0	1	0
LT	1310		6	0	6	0	6	0	6	0	6	0	6	0
USMC														
CAPT	7563		10	0	10	0	10	0	10	0	10	0	10	0
CAPT	7565		19	0	19	0	19	0	19	0	19	0	19	0
CPL	6174		0	0	0	0	0	4	0	4	0	4	0	4
GYSGT	6174		0	0	0	0	0	2	0	2	0	2	0	2
MAJ	7563		3	0	3	0	3	0	3	0	3	0	3	0
MAJ	7565		5	0	5	0	5	0	5	0	5	0	5	0
SGT	6174		0	0	0	0	0	3	0	3	0	3	0	3
TOTAL:			44	0	44	0	44	17	44	17	44	17	44	17

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: MATSG-21, Pensacola, 67412														
INSTRUCTOR BILLETS														
USMC														
GYSGT	6048		0	2	0	2	0	2	0	2	0	2	0	2
GYSGT	6092	6033	0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6324		0	4	0	4	0	4	0	4	0	4	0	4
GYSGT	6531		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6541		0	1	0	1	0	1	0	1	0	1	0	1
SGT	6048		0	3	0	3	0	3	0	3	0	3	0	3
SGT	6092	6033	0	1	0	1	0	1	0	1	0	1	0	1
SGT	6412		0	2	0	2	0	2	0	2	0	2	0	2
SGT	6413		0	2	0	2	0	2	0	2	0	2	0	2
SGT	6433		0	2	0	2	0	2	0	2	0	2	0	2
SGT	6531		0	5	0	5	0	5	0	5	0	5	0	5
SGT	6541		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6048		0	4	0	4	0	4	0	4	0	4	0	4
SSGT	6092	6033	0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6124		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6154		0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6531		0	3	0	3	0	3	0	3	0	3	0	3
SSGT	6541		0	3	0	3	0	3	0	3	0	3	0	3
SUPPORT BILLETS														
USMC														
CPL	6154		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6048		0	1	0	1	0	1	0	1	0	1	0	1
LCPL	6413		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6114		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6541		0	1	0	1	0	1	0	1	0	1	0	1
SMCR														
GYSGT	6114		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6114		0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	48	0	48	0	48	0	48	0	48	0	48

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: MTU 1067 NAMTRAU, NAS North Island, 66065													
INSTRUCTOR BILLETS													
USMC													
SGT	6124	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6062	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	3	0	3	0	3	0	3	0	3	0	3

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TRAINING ACTIVITY, LOCATION, UIC: NAMTRA MARUNIT, MCAS Camp Pendleton, 55176													
INSTRUCTOR BILLETS													
USMC													
CPL	6154	0	0	0	0	0	1	0	1	0	1	0	1
CPL	6531	0	0	0	0	0	4	0	4	0	4	0	4
GYSGT	6114	0	0	0	0	0	1	0	1	0	1	0	1
GYSGT	6124	0	0	0	0	0	2	0	2	0	2	0	2
GYSGT	6324	0	0	0	0	0	1	0	1	0	1	0	1
GYSGT	6531	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6114	0	0	0	0	0	18	0	18	0	18	0	18
SGT	6124	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6324	0	0	0	0	0	12	0	12	0	12	0	12
SGT	6433	0	0	0	0	0	2	0	2	0	2	0	2
SSGT	6114	0	0	0	0	0	2	0	2	0	2	0	2
SSGT	6154	0	0	0	0	0	4	0	4	0	4	0	4
SSGT	6324	0	0	0	0	0	3	0	3	0	3	0	3
SSGT	6434	0	0	0	0	0	6	0	6	0	6	0	6
SSGT	6531	0	0	0	0	0	2	0	2	0	2	0	2
SUPPORT BILLETS													
USMC													
CAPT	6502	0	0	0	0	1	0	1	0	1	0	1	0
CPL	4066	0	0	0	0	0	1	0	1	0	1	0	1
CPL	6042	0	0	0	0	0	1	0	1	0	1	0	1
CPL	6046	0	0	0	0	0	1	0	1	0	1	0	1
CWO3	6004	0	0	0	0	1	0	1	0	1	0	1	0
CWO3	6302	0	0	0	0	1	0	1	0	1	0	1	0
GYSGT	0193	0	0	0	0	0	1	0	1	0	1	0	1
GYSGT	6324	0	0	0	0	0	2	0	2	0	2	0	2
LCPL	0121	0	0	0	0	0	3	0	3	0	3	0	3
LCPL	0151	0	0	0	0	0	1	0	1	0	1	0	1
LCPL	4066	0	0	0	0	0	1	0	1	0	1	0	1
LCPL	6042	0	0	0	0	0	1	0	1	0	1	0	1
LCPL	6672	0	0	0	0	0	1	0	1	0	1	0	1
LCPL	7041	0	0	0	0	0	1	0	1	0	1	0	1
MAJ	6002	0	0	0	0	1	0	1	0	1	0	1	0
MSGT	6019	0	0	0	0	0	2	0	2	0	2	0	2
MSGT	6591	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6046	0	0	0	0	0	1	0	1	0	1	0	1
SGT	6114	0	0	0	0	0	2	0	2	0	2	0	2
SGT	6531	0	0	0	0	0	2	0	2	0	2	0	2
SSGT	6114	0	0	0	0	0	4	0	4	0	4	0	4
SSGT	6324	0	0	0	0	0	3	0	3	0	3	0	3
SSGT	6672	0	0	0	0	0	1	0	1	0	1	0	1

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
TOTAL:		0	0	0	0	4	90	4	90	4	90	4	90

TRAINING ACTIVITY, LOCATION, UIC: NTTU, Keesler AFB, 32861

INSTRUCTOR BILLETS

USMC													
GYSGT	6492	0	4	0	4	0	4	0	4	0	4	0	4
SGT	6492	0	5	0	5	0	5	0	5	0	5	0	5
SSGT	6492	0	8	0	8	0	8	0	8	0	8	0	8
TOTAL:		0	17	0	17	0	17	0	17	0	17	0	17

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
MTU 1039 NAMTRAU, NAS Oceana, 66045													
	USMC		1.6		1.6		1.6		1.6		1.6		1.6
MTU 3001 (FREST) VMAT-203, MCAS Cherry Point, 45483													
	USMC		3.9		3.9		0.0		0.0		0.0		0.0
MTU 3001 NAMTRA MARUNIT, MCAS Cherry Point, 45483													
	USMC		0.0		0.0		3.9		3.9		3.9		3.9
MTU 4034 (FREST) VMAT 203, MCAS Cherry Point, 45483													
	USMC		7.1		7.1		0.0		0.0		0.0		0.0
MTU 4034 NAMTRA MARUNIT, MCAS Cherry Point, 45483													
	USMC		0.0		0.0		7.1		7.1		7.1		7.1
HMT-303 FREST, MCAS Camp Pendleton, 55176													
	USMC		112.6		109.6		0.0		0.0		0.0		0.0
HMT-303 FRS, MCAS Camp Pendleton, 55176													
	USMC	36.0	0.0	36.0	0.0	36.4	19.9	36.5	18.4	36.7	18.4	35.8	18.4
MTU 1038 NAMTRAU, NAS Lemoore, 66060													
	USMC		1.9		1.9		1.9		1.9		1.9		1.9
NAMTRA MARUNIT, MCAS Camp Pendleton, 55176													
	USMC		0.0		0.0		101.9		94.7		97.4		97.2
SUMMARY TOTALS:													
	USMC	36.0	127.1	36.0	124.1	36.4	136.3	36.5	127.6	36.7	130.3	35.8	130.1
GRAND TOTALS:													
		36.0	127.1	36.0	124.1	36.4	136.3	36.5	127.6	36.7	130.3	35.8	130.1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
a. OFFICER - USN													
Operational Billets ACDU and TAR													
LT	2102		7	0	7	0	7	0	7	0	7	0	7
Staff Billets ACDU and TAR													
LCDR	1310		1	0	1	0	1	0	1	0	1	0	1
LT	1310		6	0	6	0	6	0	6	0	6	0	6
SELRES Billets													
LT	2100		1	0	1	0	1	0	1	0	1	0	1
LT	2102		1	0	1	0	1	0	1	0	1	0	1
TOTAL USN OFFICER BILLETS:													
Operational			7	0	7	0	7	0	7	0	7	0	7
Staff			7	0	7	0	7	0	7	0	7	0	7
SELRES			2	0	2	0	2	0	2	0	2	0	2
b. ENLISTED - USN													
Operational Billets ACDU and TAR													
ADCS	0000		1	0	1	0	1	0	1	0	1	0	1
AD1	8380		2	0	2	0	2	0	2	0	2	0	2
AD2	8380		2	0	2	0	2	0	2	0	2	0	2
AD3	8380		3	0	3	0	3	0	3	0	3	0	3
ADAN	8380		3	0	3	0	3	0	3	0	3	0	3
AE1	8380		2	0	2	0	2	0	2	0	2	0	2
AE2	8380		2	0	2	0	2	0	2	0	2	0	2
AE3	8380		2	0	2	0	2	0	2	0	2	0	2
AEAN	8380		2	0	2	0	2	0	2	0	2	0	2
AMC	0000		1	0	1	0	1	0	1	0	1	0	1
AM1	8380		2	0	2	0	2	0	2	0	2	0	2
AM2	8380		2	0	2	0	2	0	2	0	2	0	2
AM3	8380		4	0	4	0	4	0	4	0	4	0	4
AMAN	8380		2	0	2	0	2	0	2	0	2	0	2
AT1	8380		2	0	2	0	2	0	2	0	2	0	2
AT2	8380		2	0	2	0	2	0	2	0	2	0	2
AT3	8380		2	0	2	0	2	0	2	0	2	0	2
ATAN	8380		2	0	2	0	2	0	2	0	2	0	2
AZ2	0000		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
HM1	8404		7	0	7	0	7	0	7	0	7	0	7
HM2	8406		23	0	23	0	23	0	23	0	23	0	23
HM3	8404		1	0	1	0	1	0	1	0	1	0	1
PN2	0000		1	0	1	0	1	0	1	0	1	0	1
PR3	0000		1	0	1	0	1	0	1	0	1	0	1
PRAN	0000		1	0	1	0	1	0	1	0	1	0	1
YN1	0000		1	0	1	0	1	0	1	0	1	0	1
Fleet Support Billets ACDU and TAR													
AD1	6417		1	0	1	0	1	0	1	0	1	0	1
AD2	6417		1	0	1	0	1	0	1	0	1	0	1
AK2	0000		1	0	1	0	1	0	1	0	1	0	1
AM2	7232		1	0	1	0	1	0	1	0	1	0	1
AM3	7212		1	0	1	0	1	0	1	0	1	0	1
Staff Billets ACDU and TAR													
AD2	9502		0	0	0	1	1	0	1	0	1	0	1
AD2	9502	8380	1	0	1	-1	0	0	0	0	0	0	0
AE2	9502		0	0	0	1	1	0	1	0	1	0	1
AE2	9502	8215	1	0	1	0	1	0	1	0	1	0	1
AM1	8215	9502	1	0	1	0	1	0	1	0	1	0	1
AM2	9502		0	0	0	1	1	0	1	0	1	0	1
AM2	9502	8215	1	0	1	-1	0	0	0	0	0	0	0
AM2	8215	9502	1	0	1	0	1	0	1	0	1	0	1
AT2	9502		0	0	0	1	1	0	1	0	1	0	1
AT2	9502	8215	1	0	1	0	1	0	1	0	1	0	1
SELRES Billets													
HM1	8404		1	0	1	0	1	0	1	0	1	0	1
TOTAL USN ENLISTED BILLETS:													
Operational			74	0	74	0	74	0	74	0	74	0	74
Fleet Support			5	0	5	0	5	0	5	0	5	0	5
Staff			6	0	6	2	8	0	8	0	8	0	8
SELRES			1	0	1	0	1	0	1	0	1	0	1
c. OFFICER - USMC													
Operational Billets USMC and AR													
CAPT	6002		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
CAPT	6004		1	0	1	0	1	0	1	0	1	0	1
CAPT	7563		72	0	72	0	72	-3	69	0	69	0	69
CAPT	7563	7577	7	0	7	0	7	0	7	0	7	0	7
CAPT	7565		134	0	134	0	134	0	134	6	140	0	140
CAPT	7565	7577	1	0	1	0	1	0	1	0	1	0	1
CWO2	0170		9	0	9	0	9	0	9	0	9	0	9
CWO2	6302		6	0	6	0	6	0	6	0	6	0	6
CWO2	6502		9	0	9	-1	8	0	8	0	8	0	8
CWO3	6004		8	0	8	0	8	0	8	0	8	0	8
CWO3	6502		0	0	0	1	1	0	1	0	1	0	1
CWO5	6302		1	0	1	0	1	0	1	0	1	0	1
LT	6602		6	0	6	0	6	0	6	0	6	0	6
LT	7563		54	0	54	0	54	0	54	0	54	0	54
LT	7565		90	0	90	0	90	0	90	0	90	0	90
LTCOL	7563		7	0	7	0	7	0	7	0	7	0	7
LTCOL	7565		7	0	7	0	7	0	7	0	7	0	7
MAJ	7563		21	0	21	0	21	0	21	0	21	0	21
MAJ	7565		46	0	46	0	46	0	46	0	46	0	46
MAJ	9958	7563	1	0	1	0	1	0	1	0	1	0	1
Fleet Support Billets USMC and AR													
CAPT	7563		9	0	9	0	9	0	9	0	9	0	9
CAPT	7563	7595	1	0	1	0	1	0	1	0	1	0	1
CAPT	7565		7	0	7	0	7	0	7	0	7	0	7
CAPT	7565	7577	1	0	1	0	1	0	1	0	1	0	1
CAPT	7595	7595	1	0	1	0	1	0	1	0	1	0	1
CAPT	7596	7563	1	0	1	0	1	0	1	0	1	0	1
CAPT	9957	7563	1	0	1	0	1	0	1	0	1	0	1
CAPT	9957	7565	1	0	1	0	1	0	1	0	1	0	1
LTCOL	7565		3	0	3	0	3	0	3	0	3	0	3
LTCOL	9957	7565	1	0	1	0	1	0	1	0	1	0	1
LTCOL	9958	7563	1	0	1	0	1	0	1	0	1	0	1
LTCOL	9958	7565	5	0	5	0	5	0	5	0	5	0	5
MAJ	7563		2	0	2	0	2	0	2	0	2	0	2
MAJ	7565		3	0	3	0	3	0	3	0	3	0	3
MAJ	7565	7557	1	0	1	0	1	0	1	0	1	0	1
MAJ	7565	7595	2	0	2	0	2	0	2	0	2	0	2
MAJ	7565	9960	1	0	1	0	1	0	1	0	1	0	1
MAJ	9958	7565	1	0	1	0	1	0	1	0	1	0	1
Staff Billets USMC and AR													
CAPT	6502		1	0	1	0	1	0	1	0	1	0	1
CAPT	7563		10	0	10	0	10	0	10	0	10	0	10
CAPT	7565		19	0	19	0	19	0	19	0	19	0	19
CWO3	6004		1	0	1	0	1	0	1	0	1	0	1
CWO3	6302		1	0	1	0	1	0	1	0	1	0	1
MAJ	6002		0	0	0	1	1	0	1	0	1	0	1
MAJ	7563		3	0	3	0	3	0	3	0	3	0	3

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
MAJ	7565		5	0	5	0	5	0	5	0	5	0	5
Chargeable Student Billets USMC and AR			36	0	36	0	36	1	37	0	37	-1	36
SMCR Billets													
CAPT	7563		7	0	7	0	7	2	9	0	9	0	9
CAPT	7563	7577	1	0	1	0	1	0	1	0	1	0	1
CAPT	7565		28	0	28	0	28	0	28	2	30	0	30
CWO2	6302		2	0	2	0	2	0	2	0	2	0	2
LT	7563		12	0	12	0	12	0	12	0	12	0	12
LT	7565		36	0	36	0	36	0	36	0	36	0	36
LTCOL	7563		2	0	2	0	2	0	2	0	2	0	2
LTCOL	7565		2	0	2	0	2	0	2	0	2	0	2
MAJ	7563		6	0	6	0	6	0	6	0	6	0	6
MAJ	7565		6	0	6	0	6	0	6	0	6	0	6
TOTAL USMC OFFICER BILLETS:													
Operational			481	0	481	0	481	-3	478	6	484	0	484
Fleet Support			42	0	42	0	42	0	42	0	42	0	42
Staff			40	0	40	1	41	0	41	0	41	0	41
Chargeable Student			36	0	36	0	36	1	37	0	37	-1	36
SMCR			102	0	102	0	102	2	104	2	106	0	106
d. ENLISTED - USMC													
Operational Billets USMC and AR													
CPL	0121		26	0	26	0	26	0	26	0	26	0	26
CPL	0151		11	0	11	0	11	0	11	0	11	0	11
CPL	0431		1	0	1	0	1	0	1	0	1	0	1
CPL	6034	6154	2	0	2	0	2	0	2	0	2	0	2
CPL	6042		8	0	8	0	8	0	8	0	8	0	8
CPL	6046		45	0	45	0	45	0	45	0	45	0	45
CPL	6048		24	0	24	0	24	0	24	0	24	0	24
CPL	6073		21	0	21	0	21	0	21	0	21	0	21
CPL	6114		121	0	121	0	121	-1	120	0	120	0	120
CPL	6154		113	0	113	0	113	-1	112	15	127	6	133
CPL	6174		54	0	54	0	54	0	54	0	54	0	54

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
CPL	6324		136	0	136	0	136	0	136	6	142	6	148
CPL	6531		74	0	74	0	74	0	74	3	77	0	77
CPL	7041		1	0	1	0	1	0	1	0	1	0	1
GYSGT	0193		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6114		46	0	46	0	46	0	46	0	46	0	46
GYSGT	6124		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6154		39	0	39	0	39	0	39	0	39	0	39
GYSGT	6154	9954	6	0	6	0	6	0	6	0	6	0	6
GYSGT	6174		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6324		26	0	26	0	26	0	26	0	26	0	26
GYSGT	6531		31	0	31	0	31	0	31	0	31	0	31
LCPL	0121		26	0	26	0	26	0	26	0	26	0	26
LCPL	0151		6	0	6	0	6	0	6	0	6	0	6
LCPL	2111		9	0	9	0	9	0	9	0	9	0	9
LCPL	0231		18	0	18	0	18	0	18	0	18	0	18
LCPL	0431		28	0	28	0	28	0	28	0	28	0	28
LCPL	5711		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		7	0	7	0	7	0	7	0	7	0	7
LCPL	6046		21	0	21	0	21	0	21	0	21	0	21
LCPL	6072		24	0	24	0	24	0	24	0	24	0	24
LCPL	6114		247	0	247	0	247	0	247	0	247	0	247
LCPL	6124		2	0	2	0	2	0	2	0	2	0	2
LCPL	6154		193	0	193	0	193	0	193	0	193	6	199
LCPL	6174		51	0	51	0	51	0	51	0	51	0	51
LCPL	6324		141	0	141	0	141	0	141	0	141	0	141
LCPL	6531		96	0	96	0	96	0	96	-1	95	0	95
LCPL	7041		26	0	26	0	26	0	26	0	26	0	26
MGYSGT	6019		9	0	9	0	9	-8	1	0	1	0	1
MGYSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MSGT	0193		8	0	8	0	8	0	8	0	8	0	8
MSGT	6019		1	0	1	0	1	8	9	0	9	0	9
MSGT	6391		8	0	8	0	8	0	8	0	8	0	8
SGT	0151		8	0	8	0	8	0	8	0	8	0	8
SGT	0431		8	0	8	0	8	0	8	0	8	0	8
SGT	6046		2	0	2	0	2	0	2	0	2	0	2
SGT	6048		2	0	2	0	2	0	2	0	2	0	2
SGT	6072		21	0	21	0	21	0	21	0	21	0	21
SGT	6114		91	0	91	0	91	0	91	0	91	0	91
SGT	6154		91	0	91	0	91	0	91	0	91	0	91
SGT	6174		26	0	26	0	26	0	26	0	26	0	26
SGT	6177	6174	8	0	8	0	8	0	8	0	8	0	8
SGT	6324		92	0	92	0	92	0	92	0	92	0	92
SGT	6531		47	0	47	0	47	0	47	0	47	0	47
SGTMAJ	9999		7	0	7	0	7	0	7	0	7	0	7
SSGT	0193		8	0	8	0	8	0	8	0	8	0	8
SSGT	0231		8	0	8	0	8	-1	7	0	7	0	7
SSGT	6046		32	0	32	0	32	0	32	0	32	0	32
SSGT	6048		25	0	25	0	25	0	25	0	25	0	25

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
SSGT	6114		70	0	70	0	70	0	70	0	70	0	70
SSGT	6154		30	0	30	0	30	0	30	0	30	0	30
SSGT	6174		24	0	24	0	24	0	24	0	24	0	24
SSGT	6324		46	0	46	0	46	0	46	0	46	0	46
SSGT	6531		24	0	24	0	24	0	24	0	24	0	24
SSGT	7041		9	0	9	0	9	0	9	0	9	0	9
SSGT	8421		9	0	9	0	9	0	9	0	9	0	9
SSGT	8711		9	0	9	0	9	0	9	0	9	0	9
Fleet Support Billets USMC and AR													
CPL	6043	6092	1	0	1	0	1	0	1	0	1	0	1
CPL	6048		21	0	21	0	21	0	21	0	21	0	21
CPL	6062		21	0	21	0	21	0	21	0	21	0	21
CPL	6073		1	0	1	0	1	0	1	0	1	0	1
CPL	6114		6	0	6	0	6	0	6	0	6	0	6
CPL	6124		32	0	32	0	32	0	32	0	32	0	32
CPL	6124	6023	7	0	7	0	7	0	7	0	7	0	7
CPL	6132		1	0	1	0	1	0	1	0	1	0	1
CPL	6154		2	0	2	0	2	0	2	0	2	0	2
CPL	6174		1	0	1	0	1	0	1	0	1	0	1
CPL	6324		1	0	1	0	1	0	1	0	1	0	1
CPL	6413		2	0	2	0	2	0	2	0	2	0	2
CPL	6423		3	0	3	0	3	0	3	0	3	0	3
CPL	6433		22	0	22	0	22	0	22	0	22	0	22
CPL	6483		21	0	21	0	21	0	21	0	21	0	21
CPL	6492		2	0	2	0	2	0	2	0	2	0	2
CPL	6541		40	0	40	0	40	0	40	0	40	0	40
GYSGT	6114		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6114	9960	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6124		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6174		7	0	7	0	7	0	7	0	7	0	7
GYSGT	6324		4	0	4	0	4	0	4	0	4	0	4
LCPL	6043	6092	38	0	38	0	38	0	38	0	38	0	38
LCPL	6048		2	0	2	0	2	0	2	0	2	0	2
LCPL	6062		20	0	20	0	20	0	20	0	20	0	20
LCPL	6072		8	0	8	0	8	0	8	0	8	0	8
LCPL	6073		2	0	2	0	2	0	2	0	2	0	2
LCPL	6092		2	0	2	0	2	0	2	0	2	0	2
LCPL	6114		3	0	3	0	3	0	3	0	3	0	3
LCPL	6124		23	0	23	0	23	0	23	0	23	0	23
LCPL	6132		21	0	21	0	21	0	21	0	21	0	21
LCPL	6154		2	0	2	0	2	0	2	0	2	0	2
LCPL	6174		4	0	4	0	4	0	4	0	4	0	4
LCPL	6324		1	0	1	0	1	0	1	0	1	0	1
LCPL	6412		3	0	3	0	3	0	3	0	3	0	3
LCPL	6413		22	0	22	0	22	0	22	0	22	0	22
LCPL	6422		7	0	7	0	7	0	7	0	7	0	7
LCPL	6422	6412	13	0	13	0	13	0	13	0	13	0	13

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
LCPL	6433		18	0	18	0	18	0	18	0	18	0	18
LCPL	6483		3	0	3	0	3	0	3	0	3	0	3
LCPL	6492		40	0	40	0	40	0	40	0	40	0	40
LCPL	6541		61	0	61	0	61	0	61	0	61	0	61
LCPL	6672		20	0	20	0	20	0	20	0	20	0	20
SGT	6062		1	0	1	0	1	0	1	0	1	0	1
SGT	6072		3	0	3	0	3	0	3	0	3	0	3
SGT	6092	6033	21	0	21	0	21	0	21	0	21	0	21
SGT	6114		1	0	1	0	1	0	1	0	1	0	1
SGT	6124		28	0	28	0	28	0	28	0	28	0	28
SGT	6124	6023	5	0	5	0	5	0	5	0	5	0	5
SGT	6154		1	0	1	0	1	0	1	0	1	0	1
SGT	6174		5	0	5	0	5	0	5	0	5	0	5
SGT	6324		1	0	1	0	1	0	1	0	1	0	1
SGT	6413		20	0	20	0	20	0	20	0	20	0	20
SGT	6433		1	0	1	0	1	0	1	0	1	0	1
SGT	6483		1	0	1	0	1	0	1	0	1	0	1
SGT	6492		1	0	1	0	1	0	1	0	1	0	1
SGT	6541		23	0	23	0	23	0	23	0	23	0	23
SGT	6672		20	0	20	0	20	0	20	0	20	0	20
SSGT	6114		3	0	3	0	3	0	3	0	3	0	3
SSGT	6124		24	0	24	0	24	0	24	0	24	0	24
SSGT	6124	6023	2	0	2	0	2	0	2	0	2	0	2
SSGT	6154		4	0	4	0	4	0	4	0	4	0	4
SSGT	6154	9954	1	0	1	0	1	0	1	0	1	0	1
SSGT	6324		4	0	4	0	4	0	4	0	4	0	4
SSGT	6414		2	0	2	0	2	0	2	0	2	0	2
Staff Billets USMC and AR													
CPL	4066		1	0	1	0	1	0	1	0	1	0	1
CPL	6042		1	0	1	0	1	0	1	0	1	0	1
CPL	6046		1	0	1	0	1	0	1	0	1	0	1
CPL	6154		2	0	2	0	2	0	2	0	2	0	2
CPL	6174		4	0	4	0	4	0	4	0	4	0	4
CPL	6324		2	0	2	-2	0	0	0	0	0	0	0
CPL	6531		7	0	7	-3	4	0	4	0	4	0	4
CPL	6672		1	0	1	-1	0	0	0	0	0	0	0
GYSGT	0193		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6048		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6092	6033	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6114		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6124		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6174		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6324		7	0	7	0	7	0	7	0	7	0	7
GYSGT	6492		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6531		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6541		1	0	1	0	1	0	1	0	1	0	1
LCPL	0121		3	0	3	0	3	0	3	0	3	0	3

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
LCPL	0151		1	0	1	0	1	0	1	0	1	0	1
LCPL	4066		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		1	0	1	0	1	0	1	0	1	0	1
LCPL	6413		1	0	1	0	1	0	1	0	1	0	1
LCPL	6672		1	0	1	0	1	0	1	0	1	0	1
LCPL	7041		1	0	1	0	1	0	1	0	1	0	1
MSGT	6019		1	0	1	1	2	0	2	0	2	0	2
MSGT	6591		1	0	1	0	1	0	1	0	1	0	1
SGT	6046		1	0	1	0	1	0	1	0	1	0	1
SGT	6048		3	0	3	0	3	0	3	0	3	0	3
SGT	6092	6033	1	0	1	0	1	0	1	0	1	0	1
SGT	6114		22	0	22	-2	20	0	20	0	20	0	20
SGT	6124		2	0	2	0	2	0	2	0	2	0	2
SGT	6174		3	0	3	0	3	0	3	0	3	0	3
SGT	6324		13	0	13	-1	12	0	12	0	12	0	12
SGT	6412		2	0	2	0	2	0	2	0	2	0	2
SGT	6413		2	0	2	0	2	0	2	0	2	0	2
SGT	6433		4	0	4	0	4	0	4	0	4	0	4
SGT	6492		5	0	5	0	5	0	5	0	5	0	5
SGT	6531		5	0	5	2	7	0	7	0	7	0	7
SGT	6541		1	0	1	0	1	0	1	0	1	0	1
SSGT	6048		4	0	4	0	4	0	4	0	4	0	4
SSGT	6062		2	0	2	0	2	0	2	0	2	0	2
SSGT	6092	6033	2	0	2	0	2	0	2	0	2	0	2
SSGT	6114		11	0	11	-2	9	0	9	0	9	0	9
SSGT	6124		1	0	1	0	1	0	1	0	1	0	1
SSGT	6154		6	0	6	0	6	0	6	0	6	0	6
SSGT	6324		7	0	7	-1	6	0	6	0	6	0	6
SSGT	6434		6	0	6	0	6	0	6	0	6	0	6
SSGT	6492		8	0	8	0	8	0	8	0	8	0	8
SSGT	6531		6	0	6	-1	5	0	5	0	5	0	5
SSGT	6541		4	0	4	0	4	0	4	0	4	0	4
SSGT	6672		0	0	0	1	1	0	1	0	1	0	1
Chargeable Student Billets USMC and AR			127	-3	124	12	136	-8	128	2	130	0	130
SMCR Billets													
CPL	6046		3	0	3	0	3	0	3	0	3	0	3
CPL	6048		1	0	1	0	1	0	1	0	1	0	1
CPL	6062		1	0	1	0	1	0	1	0	1	0	1
CPL	6073		2	0	2	0	2	0	2	0	2	0	2
CPL	6092	6033	4	0	4	0	4	0	4	0	4	0	4
CPL	6114		21	0	21	0	21	1	22	0	22	0	22
CPL	6124		2	0	2	0	2	0	2	0	2	0	2
CPL	6124	6023	1	0	1	0	1	0	1	0	1	0	1
CPL	6154		22	0	22	0	22	1	23	0	23	0	23
CPL	6174		11	0	11	0	11	0	11	0	11	0	11

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
CPL	6324		28	0	28	0	28	0	28	0	28	0	28
CPL	6433		1	0	1	0	1	0	1	0	1	0	1
CPL	6483		1	0	1	0	1	0	1	0	1	0	1
CPL	6531		6	0	6	0	6	0	6	0	6	0	6
CPL	6541		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6114		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6124		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6154		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6174		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6324		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6531		2	0	2	0	2	0	2	0	2	0	2
LCPL	0121		1	0	1	0	1	0	1	0	1	0	1
LCPL	0151		2	0	2	0	2	0	2	0	2	0	2
LCPL	0231		5	0	5	0	5	0	5	0	5	0	5
LCPL	0431		4	0	4	0	4	0	4	0	4	0	4
LCPL	6042		2	0	2	0	2	0	2	0	2	0	2
LCPL	6046		6	0	6	0	6	0	6	0	6	0	6
LCPL	6062		2	0	2	0	2	0	2	0	2	0	2
LCPL	6072		2	0	2	0	2	0	2	0	2	0	2
LCPL	6114		35	0	35	0	35	0	35	0	35	0	35
LCPL	6132		1	0	1	0	1	0	1	0	1	0	1
LCPL	6154		37	0	37	0	37	0	37	0	37	0	37
LCPL	6174		8	0	8	0	8	0	8	0	8	0	8
LCPL	6324		18	0	18	0	18	0	18	6	24	0	24
LCPL	6412	6422	1	0	1	0	1	0	1	0	1	0	1
LCPL	6413		2	0	2	0	2	0	2	0	2	0	2
LCPL	6433		3	0	3	0	3	0	3	0	3	0	3
LCPL	6492		2	0	2	0	2	0	2	0	2	0	2
LCPL	6531		14	0	14	0	14	0	14	0	14	0	14
LCPL	6541		5	0	5	0	5	0	5	0	5	0	5
LCPL	6672		2	0	2	0	2	0	2	0	2	0	2
SGT	6072		2	0	2	0	2	0	2	0	2	0	2
SGT	6114		9	0	9	0	9	0	9	0	9	0	9
SGT	6124	6023	2	0	2	0	2	0	2	0	2	0	2
SGT	6154		6	0	6	0	6	0	6	0	6	0	6
SGT	6324		11	0	11	0	11	0	11	0	11	0	11
SGT	6413		1	0	1	0	1	0	1	0	1	0	1
SGT	6531		4	0	4	0	4	0	4	0	4	0	4
SGT	6541		1	0	1	0	1	0	1	0	1	0	1
SGT	6672		1	0	1	0	1	0	1	0	1	0	1
SGTMAJ	9999		2	0	2	0	2	0	2	0	2	0	2
SSGT	0193		1	0	1	0	1	0	1	0	1	0	1
SSGT	0231		0	0	0	0	0	1	1	0	1	0	1
SSGT	6046		2	0	2	0	2	0	2	0	2	0	2
SSGT	6092	6043	1	0	1	0	1	0	1	0	1	0	1
SSGT	6114		7	0	7	0	7	0	7	0	7	0	7
SSGT	6124		1	0	1	0	1	0	1	0	1	0	1
SSGT	6124	6023	1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01 +/-	CFY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM	FY04 +/-	FY04 CUM	FY05 +/-	FY05 CUM
SSGT	6154		2	0	2	0	2	0	2	0	2	0	2
SSGT	6174		2	0	2	0	2	0	2	0	2	0	2
SSGT	6324		8	0	8	0	8	0	8	0	8	0	8
SSGT	6531		4	0	4	0	4	0	4	0	4	0	4
TOTAL USMC ENLISTED BILLETS:													
Operational			2409	0	2409	0	2409	-3	2406	23	2429	18	2447
Fleet Support			691	0	691	0	691	0	691	0	691	0	691
Staff			176	0	176	-9	167	0	167	0	167	0	167
Chargeable Student			127	-3	124	12	136	-8	128	2	130	0	130
SMCR			342	0	342	0	342	3	345	6	351	0	351

II.B. PERSONNEL REQUIREMENTS

Note: During the course of the H-1 Upgrade Program, there will be a requirement to train personnel for the new Upgrade Squadrons and replace personnel for existing AH-1W/UH-1N Squadrons simultaneously. The transition is planned to minimize the impact on deployment. H-1 Squadrons with helicopters scheduled for upgrade will go into training as a unit immediately following their last AH-1W/UH-1N deployment. Training would be scheduled to minimize the delay on the next deployment as a new H-1 Upgrade Squadron. The number of students entering training for the transition of each squadron would be several times greater than replacement levels. However, the planned T/O for H-1 Squadrons does not differ substantially from the current manning levels. The training capacity required for USMC fleet replacement at the end of the H-1 Upgrade Program should be similar to current throughput.

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

Note: The following maintenance pipelines and courses are already established for training on the AH-1W and the UH-1N Helicopters. These pipelines and courses will be updated by replacing and modifying the existing courseware with the AH-1Z and UH-1Y curriculum. Updates to this NTSP will include these changes. Training Tracks M-646-2044, D/E-602-4007, M-601-3090, M-102-6413, D/E-102-6122, M-602-5811, M-102-6483, and M-646-7026 depict annual training requirements for personnel in direct support of H-1 helicopters.

CIN, COURSE TITLE: NA1, AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline
COURSE LENGTH: 22.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.44

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	32		32		33		33		32	
		AR	1		1		1		1		1	
		SMCR	3		3		3		3		3	
		TOTAL:	36		36		37		37		36	

CIN, COURSE TITLE: NA2, AH-1 Conversion Pilot
COURSE LENGTH: 16.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.32

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	24		24		25		25		24	
		AR	1		1		1		1		1	
		SMCR	2		2		2		2		2	
		TOTAL:	27		27		28		28		27	

CIN, COURSE TITLE: NA3, AH-1 Fleet Replacement Refresher Pilot Category III
COURSE LENGTH: 8.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.16

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	16		16		16		17		16	
		AR	1		1		1		1		1	
		SMCR	1		1		1		1		1	
		TOTAL:	18		18		18		19		18	

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: NA4, AH-1 FRS Instructor Pilot
COURSE LENGTH: 4.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.08

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	8		8		8		9		8	
		SMCR	1		1		1		1		1	
		TOTAL:	9		9		9		10		9	

CIN, COURSE TITLE: NA5, UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline
COURSE LENGTH: 20.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.40

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	18		19		19		19		19	
		AR	1		1		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	20		21		20		20		20	

CIN, COURSE TITLE: NA6, UH-1 Conversion Pilot
COURSE LENGTH: 10.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.20

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	14		14		14		14		14	
		AR	1		1		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	16		16		15		15		15	

CIN, COURSE TITLE: NA7, UH-1 Fleet Replacement Refresher Pilot Category III Pipeline
COURSE LENGTH: 9.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.18

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	5		5		5		5		5	
		SMCR	1		0		0		1		0	
		TOTAL:	6		5		5		6		5	

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: NA8, UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline
COURSE LENGTH: 6.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.12

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	5		5		5		5		5	
		SMCR	1		0		0		1		0	
		TOTAL:	6		5		5		6		5	

CIN, COURSE TITLE: NA9, UH-1 FRS Instructor Pilot
COURSE LENGTH: 4.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.08

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC	5		5		5		5		5	
		SMCR	1		0		0		1		0	
		TOTAL:	6		5		5		6		5	

CIN, COURSE TITLE: NA10, UH-1N Basic and Transition Crew Chief Category I and II Pipeline
COURSE LENGTH: 21.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.43

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		20		0		0		0		0
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC		0		21		19		19		19
		SMCR		0		1		1		1		1
		TOTAL:		20		22		20		20		20

CIN, COURSE TITLE: NA11, UH-1N Conversion Crew Chief
COURSE LENGTH: 20.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.40

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		20		0		0		0		0
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC		0		21		19		19		19
		SMCR		0		1		1		1		1
		TOTAL:		20		22		20		20		20

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: NA12, UH-1N Crew Chief Instructor
COURSE LENGTH: 18.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.36

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		10		0		0		0		0
HMT-303 FRS, MCAS Camp Pendleton												
	USMC	USMC		0		10		10		10		10
		SMCR		0		0		1		0		1
		TOTAL:		10		10		11		10		11

CIN, COURSE TITLE: M-102-2024, H-1 Communication, Navigation, Identification System Maintenance
COURSE LENGTH: 16.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.33

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		113		0		0		0		0
		AR		1		0		0		0		0
		SMCR		7		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		129		120		124		124
		AR		0		1		1		1		1
		SMCR		0		7		7		7		7
		TOTAL:		121		137		128		132		132

CIN, COURSE TITLE: M-601-2014, AH-1W and UH-1N Power Plants, Power Trains and Rotors Maintenance
COURSE LENGTH: 8.8 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.18

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01 OFF	CFY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL	FY04 OFF	FY04 ENL	FY05 OFF	FY05 ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		142		0		0		0		0
		AR		7		0		0		0		0
		SMCR		8		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		165		149		149		149
		AR		0		7		7		7		7
		SMCR		0		8		8		8		8
		TOTAL:		157		180		164		164		164

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-602-2081, Helicopter Airframe Mechanic A/UH-1
COURSE LENGTH: 4.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.09

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		117		0		0		0		0
		AR		5		0		0		0		0
		SMCR		7		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		122		119		133		133
		AR		0		5		4		4		4
		SMCR		0		7		7		7		7
		TOTAL:		129		134		130		144		144

CIN, COURSE TITLE: M-646-2044, H-1 Armament Systems Maintenance
COURSE LENGTH: 9.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.19

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		66		0		0		0		0
		AR		4		0		0		0		0
		SMCR		3		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		74		68		70		69
		AR		0		4		4		4		4
		SMCR		0		3		3		3		3
		TOTAL:		73		81		75		77		76

CIN, COURSE TITLE: E-102-6122, Cryptographic Equipment Intermediate Maintenance
COURSE LENGTH: 3.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.06

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1038 NAMTRAU, NAS Lemoore												
	USMC	USMC		5		5		5		5		5
		TOTAL:		5		5		5		5		5

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-102-6413, Aircraft Navigation Systems Equipment Intermediate Maintenance
COURSE LENGTH: 9.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.19

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3001 (FREST) VMAT-203, MCAS Cherry Point												
	USMC	USMC		12		0		0		0		0
MTU 3001 NAMTRA MARUNIT, MCAS Cherry Point												
	USMC	USMC		0		12		12		12		12
		SMCR		0		0		0		1		0
		TOTAL:		12		12		12		13		12

CIN, COURSE TITLE: M-102-6483, Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance
COURSE LENGTH: 11.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.22

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3001 (FREST) VMAT-203, MCAS Cherry Point												
	USMC	USMC		6		0		0		0		0
MTU 3001 NAMTRA MARUNIT, MCAS Cherry Point												
	USMC	USMC		0		6		6		6		6
		TOTAL:		6		6		6		6		6

CIN, COURSE TITLE: M-601-3027, T-400/700 Engine First Degree Intermediate Maintenance
COURSE LENGTH: 9.2 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.18

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		33		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		36		34		34		34
		SMCR		0		1		1		1		1
		TOTAL:		33		37		35		35		35

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-601-3090, Helicopter Dynamic Component Intermediate Maintenance
COURSE LENGTH: 5.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.11

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3001 (FREST) VMAT-203, MCAS Cherry Point												
	USMC	USMC		6		0		0		0		0
MTU 3001 NAMTRA MARUNIT, MCAS Cherry Point												
	USMC	USMC		0		6		6		6		6
		TOTAL:		6		6		6		6		6

CIN, COURSE TITLE: D-602-4007, F-18 Hydraulic Components Intermediate Maintenance
COURSE LENGTH: 8.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.16

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1039 NAMTRAU, NAS Oceana												
	USMC	USMC		11		11		11		11		11
		SMCR		1		0		0		1		0
		TOTAL:		12		11		11		12		11

CIN, COURSE TITLE: E-602-4007, F-18 Hydraulic Components Intermediate Maintenance
COURSE LENGTH: 8.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.16

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1038 NAMTRAU, NAS Lemoore												
	USMC	USMC		11		11		11		11		11
		SMCR		1		0		0		1		0
		TOTAL:		12		11		11		12		11

CIN, COURSE TITLE: M-602-5811, H-1 Aircraft Electrical Instrument Automatic Flight Control System Equipment Intermediate Maintenance
COURSE LENGTH: 10.0 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.20

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT-303 FREST, MCAS Camp Pendleton												
	USMC	USMC		11		0		0		0		0
NAMTRA MARUNIT, MCAS Camp Pendleton												
	USMC	USMC		0		13		12		12		12
		SMCR		0		0		1		0		1
		TOTAL:		11		13		13		12		13

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Technician Intermediate Maintenance
COURSE LENGTH: 11.4 Weeks
ATTRITION FACTOR: Navy: 0% USMC: 0% **BACKOUT FACTOR:** 0.23

TRAINING		ACDU/TAR	CFY01		FY02		FY03		FY04		FY05	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4034 (FREST) VMAT 203, MCAS Cherry Point												
	USMC	USMC		32		0		0		0		0
		AR		1		0		0		0		0
MTU 4034 NAMTRA MARUNIT, MCAS Cherry Point												
	USMC	USMC		0		32		32		32		32
		AR		0		1		1		1		1
		SMCR		0		1		1		1		1
		TOTAL:		33		34		34		34		34

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y), and, therefore, are not included in Part III of this NTSP:

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AH-1Z and UH-1Y Pilot Training
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 39 Days
ACTIVITY DESTINATIONS: DT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 03	8	0	0	Input
		0.9	0		AOB
		8	0		Chargeable

COURSE TITLE: H-1 Airframes Hydraulic Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 9 Days
ACTIVITY DESTINATIONS: DT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Airframes Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 9 Days
ACTIVITY DESTINATIONS: DT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Armament Systems Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: DT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.1		AOB
		0	8		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: H-1 Communication/Navigation Identification and Related Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 11 Days
ACTIVITY DESTINATIONS: DT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Electrical and Automatic Flight Control Systems Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 17 Days
ACTIVITY DESTINATIONS: DT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.4		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Fire Control Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 11 Days
ACTIVITY DESTINATIONS: DT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Power Trains, Rotors, and Related Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 30 Days
ACTIVITY DESTINATIONS: DT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 03	0	8	0	Input
		0	0.7		AOB
		0	8		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AH-1Z and UH-1Y Pilot Training
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 39 Days
ACTIVITY DESTINATIONS: FOT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 04	8	0	0	Input
		0.9	0		AOB
		8	0		Chargeable

COURSE TITLE: H-1 Airframes Hydraulic Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 9 Days
ACTIVITY DESTINATIONS: FOT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Airframes Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 9 Days
ACTIVITY DESTINATIONS: FOT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Armament Systems Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 5 Days
ACTIVITY DESTINATIONS: FOT&E

LOCATION, UIC	BEGIN DATE	STUDENTS OFF	ENL	CIV	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.1		AOB
		0	8		Chargeable

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: H-1 Communication/Navigation Identification and Related Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 11 Days
ACTIVITY DESTINATIONS: FOT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Electrical and Automatic Flight Control Systems Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 17 Days
ACTIVITY DESTINATIONS: FOT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.4		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Fire Control Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 11 Days
ACTIVITY DESTINATIONS: FOT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.2		AOB
		0	8		Chargeable

COURSE TITLE: H-1 Power Trains, Rotors, and Related Systems Integrated Organizational Maintenance
COURSE DEVELOPER: Bell Helicopter Textron, Inc.
COURSE INSTRUCTOR: Bell Helicopter Textron, Inc.
COURSE LENGTH: 30 Days
ACTIVITY DESTINATIONS: FOT&E

	BEGIN	STUDENTS			
LOCATION, UIC	**DATE**	**OFF**	**ENL**	**CIV**	
NRWATS Patuxent River, 39784	May 04	0	8	0	Input
		0	0.7		AOB
		0	8		Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: NA1, AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
33		33		34		34		33		ATIR
33		33		34		34		33		Output
13.7		13.7		14.1		14.1		13.7		AOB
13.7		13.7		14.1		14.1		13.7		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
3		3		3		3		3		ATIR
3		3		3		3		3		Output
1.2		1.2		1.2		1.2		1.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA2, AH-1 Conversion Pilot
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
25		25		26		26		25		ATIR
25		25		26		26		25		Output
7.5		7.5		7.8		7.8		7.5		AOB
7.5		7.5		7.8		7.8		7.5		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
2		2		2		2		2		ATIR
2		2		2		2		2		Output
0.6		0.6		0.6		0.6		0.6		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: NA3, AH-1 Fleet Replacement Refresher Pilot Category III
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
17		17		17		18		17		ATIR
17		17		17		18		17		Output
2.5		2.5		2.5		2.6		2.5		AOB
2.5		2.5		2.5		2.6		2.5		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA4, AH-1 FRS Instructor Pilot
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
8		8		8		9		8		ATIR
8		8		8		9		8		Output
0.6		0.6		0.6		0.7		0.6		AOB
0.6		0.6		0.6		0.7		0.6		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.1		0.1		0.1		0.1		0.1		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: NA5, UH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
19		20		19		19		19		ATIR
19		20		19		19		19		Output
7.2		7.6		7.2		7.2		7.2		AOB
7.2		7.6		7.2		7.2		7.2		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.4		0.4		0.4		0.4		0.4		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA6, UH-1 Conversion Pilot
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
15		15		14		14		14		ATIR
15		15		14		14		14		Output
2.8		2.8		2.6		2.6		2.6		AOB
2.8		2.8		2.6		2.6		2.6		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.2		0.2		0.2		0.2		0.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: NA7, UH-1 Fleet Replacement Refresher Pilot Category III Pipeline
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.8		0.8		0.8		0.8		0.8		AOB
0.8		0.8		0.8		0.8		0.8		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		0		1		0		ATIR
1		0		0		1		0		Output
0.2		0.0		0.0		0.2		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA8, UH-1 Fleet Replacement Modified Refresher Pilot Category IV Pipeline
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.5		0.5		0.5		0.5		0.5		AOB
0.5		0.5		0.5		0.5		0.5		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		0		1		0		ATIR
1		0		0		1		0		Output
0.1		0.0		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: NA9, UH-1 FRS Instructor Pilot
TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.4		0.4		0.4		0.4		0.4		AOB
0.4		0.4		0.4		0.4		0.4		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		0		1		0		ATIR
1		0		0		1		0		Output
0.1		0.0		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA10, UH-1N Basic and Transition Crew Chief Category I and II Pipeline
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
20		0		0		0		0		ATIR
20		0		0		0		0		Output
8.2		0.0		0.0		0.0		0.0		AOB
8.2		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		21		19		19		19		ATIR
0		21		19		19		19		Output
0.0		8.6		7.8		7.8		7.8		AOB
0.0		8.6		7.8		7.8		7.8		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		1		1		1		ATIR
0		1		1		1		1		Output
0.0		0.4		0.4		0.4		0.4		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA11, UH-1N Conversion Crew Chief
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
20		0		0		0		0		ATIR
20		0		0		0		0		Output
7.6		0.0		0.0		0.0		0.0		AOB
7.6		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		21		19		19		19		ATIR
0		21		19		19		19		Output
0.0		7.9		7.2		7.2		7.2		AOB
0.0		7.9		7.2		7.2		7.2		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		1		1		1		ATIR
0		1		1		1		1		Output
0.0		0.4		0.4		0.4		0.4		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: NA12, UH-1N Crew Chief Instructor
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
10		0		0		0		0		ATIR
10		0		0		0		0		Output
3.4		0.0		0.0		0.0		0.0		AOB
3.4		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		10		10		10		10		ATIR
0		10		10		10		10		Output
0.0		3.4		3.4		3.4		3.4		AOB
0.0		3.4		3.4		3.4		3.4		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		1		0		1		ATIR
0		0		1		0		1		Output
0.0		0.0		0.3		0.0		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-102-2024, H-1 Communication, Navigation, Identification System Maintenance
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
114		0		0		0		0		ATIR
114		0		0		0		0		Output
35.6		0.0		0.0		0.0		0.0		AOB
35.6		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
7		0		0		0		0		ATIR
7		0		0		0		0		Output
2.2		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		130		121		125		125		ATIR
0		130		121		125		125		Output
0.0		40.6		37.8		39.1		39.1		AOB
0.0		40.6		37.8		39.1		39.1		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		7		7		7		7		ATIR
0		7		7		7		7		Output
0.0		2.2		2.2		2.2		2.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-601-2014, AH-1W and UH-1N Power Plants, Power Trains, and Rotors Maintenance
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
149		0		0		0		0		ATIR
149		0		0		0		0		Output
24.5		0.0		0.0		0.0		0.0		AOB
24.5		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
8		0		0		0		0		ATIR
8		0		0		0		0		Output
1.3		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		172		156		156		156		ATIR
0		172		156		156		156		Output
0.0		28.3		25.7		25.7		25.7		AOB
0.0		28.3		25.7		25.7		25.7		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		8		8		8		8		ATIR
0		8		8		8		8		Output
0.0		1.3		1.3		1.3		1.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-602-2081, Helicopter Airframe Mechanic A/UH-1
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
122		0		0		0		0		ATIR
122		0		0		0		0		Output
10.0		0.0		0.0		0.0		0.0		AOB
10.0		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
7		0		0		0		0		ATIR
7		0		0		0		0		Output
0.6		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		127		123		137		137		ATIR
0		127		123		137		137		Output
0.0		10.4		10.1		11.2		11.2		AOB
0.0		10.4		10.1		11.2		11.2		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		7		7		7		7		ATIR
0		7		7		7		7		Output
0.0		0.6		0.6		0.6		0.6		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-646-2044, H-1 Armament Systems Maintenance
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
70		0		0		0		0		ATIR
70		0		0		0		0		Output
12.5		0.0		0.0		0.0		0.0		AOB
12.5		0.0		0.0		0.0		0.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
3		0		0		0		0		ATIR
3		0		0		0		0		Output
0.5		0.0		0.0		0.0		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		78		72		74		73		ATIR
0		78		72		74		73		Output
0.0		13.9		12.9		13.2		13.0		AOB
0.0		13.9		12.9		13.2		13.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		3		3		3		3		ATIR
0		3		3		3		3		Output
0.0		0.5		0.5		0.5		0.5		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: E-102-6122, Cryptographic Equipment Intermediate Maintenance
TRAINING ACTIVITY: MTU 1038 NAMTRAU
LOCATION, UIC: NAS Lemoore, 66060

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
5		5		5		5		5		ATIR
5		5		5		5		5		Output
0.3		0.3		0.3		0.3		0.3		AOB
0.3		0.3		0.3		0.3		0.3		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-102-6413, Aircraft Navigation Systems Equipment Intermediate Maintenance
TRAINING ACTIVITY: MTU 3001 (FREST) VMAT-203
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
12		0		0		0		0		ATIR
12		0		0		0		0		Output
2.1		0.0		0.0		0.0		0.0		AOB
2.1		0.0		0.0		0.0		0.0		Chargeable

TRAINING ACTIVITY: MTU 3001 NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		12		12		12		12		ATIR
0		12		12		12		12		Output
0.0		2.1		2.1		2.1		2.1		AOB
0.0		2.1		2.1		2.1		2.1		Chargeable

CIN, COURSE TITLE: M-102-6483, Helicopter Deceptive Electronic Countermeasures Intermediate Maintenance
TRAINING ACTIVITY: MTU 3001 (FREST) VMAT-203
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6		0		0		0		0		ATIR
6		0		0		0		0		Output
1.2		0.0		0.0		0.0		0.0		AOB
1.2		0.0		0.0		0.0		0.0		Chargeable

TRAINING ACTIVITY: MTU 3001 NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		6		6		6		6		ATIR
0		6		6		6		6		Output
0.0		1.2		1.2		1.2		1.2		AOB
0.0		1.2		1.2		1.2		1.2		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-601-3027, T-400/700 Engine First Degree Intermediate Maintenance
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
33		0		0		0		0		ATIR
33		0		0		0		0		Output
5.8		0.0		0.0		0.0		0.0		AOB
5.8		0.0		0.0		0.0		0.0		Chargeable

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		36		34		34		34		ATIR
0		36		34		34		34		Output
0.0		6.3		6.0		6.0		6.0		AOB
0.0		6.3		6.0		6.0		6.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		1		1		1		ATIR
0		1		1		1		1		Output
0.0		0.2		0.2		0.2		0.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-601-3090, Helicopter Dynamic Component Intermediate Maintenance
TRAINING ACTIVITY: MTU 3001 (FREST) VMAT-203
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
6		0		0		0		0		ATIR
6		0		0		0		0		Output
0.6		0.0		0.0		0.0		0.0		AOB
0.6		0.0		0.0		0.0		0.0		Chargeable

TRAINING ACTIVITY: MTU 3001 NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		6		6		6		6		ATIR
0		6		6		6		6		Output
0.0		0.6		0.6		0.6		0.6		AOB
0.0		0.6		0.6		0.6		0.6		Chargeable

CIN, COURSE TITLE: D-602-4007, F-18 Hydraulic Components Intermediate Maintenance
TRAINING ACTIVITY: MTU 1039 NAMTRAU
LOCATION, UIC: NAS Oceana, 66045

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
11		11		11		11		11		ATIR
11		11		11		11		11		Output
1.6		1.6		1.6		1.6		1.6		AOB
1.6		1.6		1.6		1.6		1.6		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		0		1		0		ATIR
1		0		0		1		0		Output
0.1		0.0		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: E-602-4007, F-18 Hydraulic Components Intermediate Maintenance
TRAINING ACTIVITY: MTU 1038 NAMTRAU
LOCATION, UIC: NAS Lemoore, 66060

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
11		11		11		11		11		ATIR
11		11		11		11		11		Output
1.6		1.6		1.6		1.6		1.6		AOB
1.6		1.6		1.6		1.6		1.6		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		0		0		1		0		ATIR
1		0		0		1		0		Output
0.1		0.0		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-602-5811, H-1 Aircraft Electrical Instrument. Automatic Flight Control System Equipment Intermediate Maintenance
TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
11		0		0		0		0		ATIR
11		0		0		0		0		Output
2.0		0.0		0.0		0.0		0.0		AOB
2.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: NAMTRA MARUNIT
LOCATION, UIC: MCAS Camp Pendleton, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		13		12		12		12		ATIR
0		13		12		12		12		Output
0.0		2.4		2.2		2.2		2.2		AOB
0.0		2.4		2.2		2.2		2.2		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		0		1		0		1		ATIR
0		0		1		0		1		Output
0.0		0.0		0.2		0.0		0.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Technician Intermediate Maintenance
TRAINING ACTIVITY: MTU 4034 (FREST) VMAT 203
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
33		0		0		0		0		ATIR
33		0		0		0		0		Output
7.1		0.0		0.0		0.0		0.0		AOB
7.1		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU 4034 NAMTRA MARUNIT
LOCATION, UIC: MCAS Cherry Point, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		33		33		33		33		ATIR
0		33		33		33		33		Output
0.0		7.1		7.1		7.1		7.1		AOB
0.0		7.1		7.1		7.1		7.1		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		1		1		1		ATIR
0		1		1		1		1		Output
0.0		0.2		0.2		0.2		0.2		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the H-1 Upgrades Program (AH-1Z and UH-1Y), and, therefore, are not included in Part IV of this NTSP:

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

Note: Maintenance pipelines and courses have not been developed for AH-1Z and UH-1Y helicopters at this time. BHTI is contracted to develop or modify existing AH-1W and UH-1N courseware with the AH-1Z and UH-1Y curriculum. Updates to this NTSP will include the new CINs and course titles where applicable.

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

Note: BHTI has recommended tools, test sets, and test equipment to support the AH-1Z and UH-1Y. This list is being generated through LSAR and reviewed by SEIPT, comprised of PMA276 and BHTI. An approved list will be included in updates to this NTSP. The following is a proposed list of training hardware:

PART NUMBER	SERD	NOMENCLATURE
214-240-101	4049	Locator, Bearing Hanger, Aft
214-240-002-101	4048	Locator, Bearing Hanger, Fwd
38190-40010	4063	Personality Module, Abe AH-1Z
449-201-001-101	4045	Kit Assembly, Rig Pin
449-201-002-101	4046	Kit Assembly, Blade Fold Pin
449-210-001-101	4031	Sling Assembly, Aircraft Hoisting
449-210-002-101	4027	Trailer Adapter, Rotor Hub
449-210-003-101	4028	Trailer Adapter, Swashplate
449-210-004-101	4029	Sling, Swashplate
449-210-005-001	4030	Holding Fixture, Swashplate
449-210-008-101	4011	Tool Set, MGB Mount
449-210-009-101	4054	Block, Tilt Ball
449-210-010-101	4056	Installation Tool Assembly, Actuator Fitting
449-210-012-101	4059	Sling, Hub and Blade
449-210-015-101	4060	Press, Bearing, Swashplate Support
449-212-001-101	4034	Trailer Adapter, Tail Rotor
449-212-003-101	4047	Holding Tool, Coupling
449-215-001-101	4032	Trailer Adapter, Blade Set
449-215-002-101	4036	Bend Set, Blade Trim Tab
449-230-001-101	4001	Sling, Weapons Pylon
449-230-002-101	4002	Trailer Adapter, Weapons Pylon
449-230-003-101	4003	Tiedown Ring Assembly
449-240-003-101	4019	Track Assembly, Gearbox Rem/Instl
449-240-005-101	4010	Trailer Adapter, Main Gearbox
449-240-006-101	4012	Adapter, Lifting Main Gearbox
449-240-013-101	4020	Sling, Cobox
449-240-014-101	4021	Sling, Tail Rotor Gearbox
449-240-017-101	4051	Adapter, Intermediate Gearbox
449-240-019-101	4061	Tool Set, Gearbox
449-240-020-101	4039	Compression Tool
449-250-001-101	4006	Adapter Set, Boresight
449-264-001-101	4055	Cover, Maint, APU Intake
449-266-001-101	4026	De-Fuel Drain Line
449-275-002-101	4024	MLVS Cable

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

PART NUMBER	SERD	NOMENCLATURE
449-310-105-101	4044	Bladefold Racks, Main Rotor Blades
79705907-009	4041	Adapter, TSS Turret
8930897-0001	4042	Helmet, Fitting Tool
8930898-0001	4043	Eye Alignment Tool
910-0003-1	4023	Gearbox Drain Line
BCW-4300	4004	Ground Handling Wheel, Fwd
449-210-018-101	4068	Swashplate Fitting Fixture
449-210-019-101	4070	Spacer, Pitch Change Adapter
449-212-005-101	4066	Tool, Split Cone Removal
449-234-001-101	4071	Sling, Tail Boom
449-240-021-101	4067	Holding Fixture, TGB
449-240-022-101	4073	Coupling Cover Set, Main Driveshaft
449-275-001-101	4065	Electrical Repair Set
449-275-003-101	4064	1553 Test Cable
MS14531-2C32511	4069	Pin, Seat Install
PD602	4074	Torque Pack Assembly
SLING-414	4075	Sling, Universal
449-010-133-102	4076	Adapter, Mast Lift

IV.A.2. TRAINING DEVICES

DEVICE: 2F136, AH-1W Weapon System Trainer

DESCRIPTION: This device consists of two permanently installed, full-sized, domed replicas of the AH-1W Helicopter cockpit, one as a Pilot trainee station and the other as a Gunner-Copilot trainee station, and an IOS containing a host computer, a power supply, and associated peripherals. These stations may run independently or may be integrated when running concurrent missions. The trainee stations provide the students with the realistic cockpit environment that is necessary for effective training by utilizing aircraft, tactical, aural, and motion simulation. All controls and indicators that appear in the helicopter are provided in the WST. The performance of the aircraft systems, electronic equipment, instrument response, and control reactions are designed to simulate the actual AH-1W Helicopter operation on the ground, during takeoff, flight, and landing, including weapons delivery, communication, navigation, system malfunctions, threat environment, and appropriate countermeasures. The instructional system provides for an Instructor to control the training situation from either the IOS or Copilot position, using the auxiliary controls provided there. The AH-1W WST 2F136 just completed the Night Targeting System/Canopy Cockpit modification, COMM/NAV upgrade, Tactical Navigation System upgrade, computer rehost, new IOS and 28 Trainer Engineering Change requests. All AH-1W WST Devices will require modification to reflect the new equipment and systems of the AH-1Z Helicopter.

MANUFACTURER: CAE-Link Flight Simulation Division
CONTRACT NUMBER: TBD (Modifications)
TEE STATUS: NA

TRAINING ACTIVITY: HMT-302 FREST
LOCATION, UIC : MCAS New River, 55203

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Apr 93	Apr 93	Onboard	AH-1 Refresher (Pilot Category III)
(AH-1Z)	1	Mar 08	TBD	Pending	AH-1 Refresher Pilot (Category III)

TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Nov 92	Nov 92	Onboard	AH-1 Basic and Transition Pilot (Category I and II) AH-1 Conversion Pilot AH-1 Refresher Pilot (Category III) AH-1 FRS Instructor Pilot
(AH-1Z)	2	Mar 08	TBD	Pending	AH-1 Basic and Transition Pilot (Category I and II) AH-1 Conversion Pilot AH-1 Refresher Pilot (Category III) AH-1 FRS Instructor Pilot

IV.A.2. TRAINING DEVICES

DEVICE: 2F161, UH-1N Weapon System Trainer

DESCRIPTION: This device consists of a full-sized, domed replica of the UH-1N Helicopter cockpit as a trainee station, mounted on a full six-degree of freedom motion platform, and an IOS containing a host computer, a power supply, and associated peripherals. The trainee station simulates as closely as possible many functions of the UH-1N Helicopter and provides the students with the realistic cockpit environment that is necessary for effective training. The performance of the aircraft systems, electronic equipment, instrument response, and control reactions are designed to simulate the actual UH-1N Helicopter operation on the ground, during takeoff, flight, and landing, including weapons delivery, communication, navigation, system malfunctions, threat environment, and appropriate countermeasures. It includes a tactical environment simulation that allows the Aviators to interact with simulated threat environment and control friendly assets to accomplish their tactical missions. The instructional system provides for an Instructor to extensively control normal and abnormal aural cues under day, night, and dusk conditions and monitor the training situation. All UH-1N WST Devices will require modification to reflect the new equipment and systems of the UH-1Y Helicopter.

MANUFACTURER: Hughes Training, Inc.

CONTRACT NUMBER: N61339-91-C-0059

TEE STATUS: NA

TRAINING ACTIVITY: HMT-303 FRS

LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Dec 94	Dec 94	Onboard	UH-1 Basic and Transition Pilot (Category I and II) UH-1 Conversion Pilot UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 FRS Instructor Pilot UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor
(AH-1Z)	1	Mar 08	TBD	Pending	UH-1 Basic and Transition Pilot (Category I and II) UH-1 Conversion Pilot UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 FRS Instructor Pilot UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor

IV.A.2. TRAINING DEVICES

DEVICE: 2F170, AH-1W Aircrew Procedures Trainer
DESCRIPTION: This device consists of a full-sized replica of the AH-1W Helicopter cockpit as a Pilot and Copilot trainee station, an IOS, and an ESIG 2000 Out-The-Window (OTW) visual system. The APT Device is housed in three mobile facilities and it is capable of rapid, same day, operational set-up and tear-down. The cockpit assembly includes full-sized active indicators, controls, lights, panels, gauges, and instruments located in the same relative position as in the actual aircraft. Power supplies, host computers, a control loading system, aural cueing, intercom system, and associated peripherals are located in the cockpit assembly. The IOS includes an Instructor desk, two chairs, two monitors, two keyboard-mouse assemblies, and a printer with stand. The IOS monitors are for starting the simulator system, controlling student training sessions, and monitoring corresponding student actions. The IOS printer is provided to obtain student records, session printouts, IOS dumps, and diagnostics. A unique feature of the device is the capability to run and control the simulation without an Instructor. The device can be controlled from either of the Crew stations via a trackball assembly and the IOS information is projected onto the right OTW screen. The device possess all the capabilities of the AH-1W WST, except for motion and simulated threat, and performs all functional checklists, including the weapon systems and emergency procedures, both airborne and on the ground. It is also qualified as an Instrument Flight Training device. All AH-1W APTs will require modification to reflect the new equipment and systems of the AH-1Z Helicopter.

MANUFACTURER: Manned Flight Simulator, NAWCAD Patuxent River
CONTRACT NUMBER: NA
TEE STATUS: NA

Note: The first four AH-1Z Modified TDs will be delivered to MCAS Camp Pendleton to support transition training.

TRAINING ACTIVITY: HMT-303 FRS
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Feb 95	Sep 94	Onboard	AH-1 Basic and Transition Pilot (Category I and II) AH-1 Conversion Pilot AH-1 Refresher Pilot (Category III) AH-1 FRS Instructor Pilot
(AH-1Z)	2 (4)	Mar 02	TBD	Pending	AH-1 Basic and Transition Pilot (Category I and II) AH-1 Conversion Pilot AH-1 Refresher Pilot (Category III) AH-1 FRS Instructor Pilot

TRAINING ACTIVITY: HMT-302 FRS
LOCATION, UIC : MCAS New River, 55203

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Jun 96	Jun 96	Onboard	AH-1 Refresher (Pilot Category III)
(AH-1Z)	1	Mar 04	TBD	Pending	AH-1 Refresher Pilot (Category III)

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: 1ST MAW, MAG-36
LOCATION, UIC : MCAS Okinawa, Futenma, Japan, 57079

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Jan 07	TBD	Pending	AH-1 Refresher Pilot (Category III)

TRAINING ACTIVITY: 4TH MAW, HML/A 773
LOCATION, UIC : NAS Atlanta, 61915

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Jan 97	Jan 97	Onboard	AH-1 Refresher (Pilot Category III)
(AH-1Z)	1	Jan 07	TBD	Pending	AH-1 Refresher Pilot (Category III)

TRAINING ACTIVITY: 4TH MAW, HML/A-775 Det A
LOCATION, UIC : MCAS Belle Chasse, 45238

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Jan 97	Jan 97	Onboard	AH-1 Refresher (Pilot Category III)
(AH-1Z)	1	Jan 07	TBD	Pending	AH-1 Refresher Pilot (Category III)

TRAINING ACTIVITY: 4TH MAW, HML/A-773 Det A
LOCATION, UIC : NAS Johnstown, 67829

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Jan 07	TBD	Pending	AH-1 Refresher Pilot (Category III)

IV.A.2. TRAINING DEVICES

DEVICE: 2F175, UH-1N Aircrew Procedures Trainer

DESCRIPTION: This device consists of a full-sized replica of the UH-1N Helicopter cockpit as a trainee station, an IOS, and an OTW visual system. The APT Device is housed in two mobile facilities and is transportable by truck, rail, ship, and air can transport. The APT 2F175 is capable of rapid, same day, operational set-up and tear-down. Power supplies, host computers, a control loading system, aural cueing, intercom system, and associated peripherals are housed within the cockpit assembly that includes full-sized active indicators, controls, lights, panels, gauges, and instruments located in the same relative position as in the actual aircraft. The APT Device possess all the capabilities of the UH-1N WST, except for motion and simulated threat, and performs all functional checklists, including the weapon systems and emergency procedures, both airborne and on the ground. The IOS monitors are for starting the simulator system, controlling student training sessions, and monitoring corresponding student actions. The IOS printer is provided to obtain student records, session printouts, IOS dumps, and diagnostics. The APT Device can be operated by a minimum of one Pilot at either of the two Crew stations, or by a maximum of two Pilots in the Crew stations, and one Instructor at the ISO. All UH-1N APT Devices will require modification to reflect the new equipment and systems of the UH-Y Helicopter.

MANUFACTURER: Manned Flight Simulator, NAWCAD Patuxent River

CONTRACT NUMBER: TBD (Modifications)

TEE STATUS: TBD

Note: The first four UH-1Y Modified TDs will be delivered to MCAS Camp Pendleton to support transition training.

TRAINING ACTIVITY: HMT-303 FRS

LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Dec 94	Dec 94	Onboard	UH-1 Basic and Transition Pilot (Category I and II) UH-1 Conversion Pilot UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 FRS Instructor Pilot UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor
(AH-1Z)	1 (4)	Mar 04	TBD	Pending	UH-1 Basic and Transition Pilot (Category I and II) UH-1 Conversion Pilot UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 FRS Instructor Pilot UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: HMT-302 FRS
LOCATION, UIC : MCAS New River, 55203

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	2	Mar 04	TBD	Pending	UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 Conversion Crew Chief

TRAINING ACTIVITY: 1ST MAW, MAG-36
LOCATION, UIC : MCAS Okinawa, Futenma, Japan, 57079

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Mar 04	TBD	Pending	UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 Conversion Crew Chief

TRAINING ACTIVITY: 4TH MAW, HML/A 773
LOCATION, UIC : NAS Atlanta, 61915

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Mar 04	TBD	Pending	UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 Conversion Crew Chief

TRAINING ACTIVITY: 4TH MAW, HML/A-775 Det A
LOCATION, UIC : MCAS Belle Chasse, 45238

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Mar 04	TBD	Pending	UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 Conversion Crew Chief

TRAINING ACTIVITY: 4TH MAW, HML/A-773 Det A
LOCATION, UIC : NAS Johnstown, 67829

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Mar 04	TBD	Pending	UH-1 Refresher Pilot (Category III) UH-1 Modified Refresher Pilot (Category IV) UH-1 Conversion Crew Chief

IV.A.2. TRAINING DEVICES

DEVICE: 410101 and 111101, AH-1W Composite Maintenance Trainer
DESCRIPTION: This device consists of a complete, full-sized AH-1W Helicopter with stubbed rotor blades as a trainee station, an IOS containing a host computer, a power supply, and associated peripherals. The CMT provides system maintenance training for structure, power plants, power trains, hydraulics, and flight control systems. The safety features of the CMT allow realistic training in a controlled and safe environment. AH-1Z and UH-1Y Engineering Manufacturing and Development aircraft will be transferred to the FREST starting in FY04, and replace the existing AH-1W CMTs. The new AH-1W CMTs will receive production upgrades and trainer unique modifications to include an independent power supply, safety stops, and an IOS with computerized fault insertion. At this time one AH-1W CMT will continue to support AH-1W (two-bladed rotor system) as long as required and will be disposed of when AH-1W requirements are complete.

MANUFACTURER: Bell Helicopter Textron, Inc.
CONTRACT NUMBER: TBD (Modifications)
TEE STATUS: TBD

TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1W)	1	Sep 94	Sep 94	Onboard	C-102-9354 (Track M-102-2024) C-198-9351 (Track M-102-2024) C-104-3351 (Track M-102-2024) C-601-9351 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044)
(AH-1Z)	2	Mar 05	TBD	Pending	C-102-9354 (Track M-102-2024) C-198-9351 (Track M-102-2024) C-104-3351 (Track M-102-2024) C-601-9351 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044) C-601-3137 (Track M-601-3027) C-601-9361 (Track M-601-2014)

IV.A.2. TRAINING DEVICES

DEVICE: 110201 and 310101, UH-1N Composite Maintenance Trainer
DESCRIPTION: This device consists of a complete, full-sized UH-1N Helicopter with stubbed rotor blades as a trainee station, an IOS containing a host computer, a power supply, and associated peripherals. The CMT provides system maintenance training for structure, power plants, power trains, hydraulics, and flight control systems. The safety features of the CMT allow realistic training in a controlled and safe environment. AH-1Z and UH-1Y Engineering Manufacturing and Development aircraft will be transferred to the FREST starting in FY04, and replace the existing UH-1N CMTs. The new UH-1N CMTs will receive production upgrades and trainer unique modifications to include an independent power supply, safety stops, and an IOS with computerized fault insertion.

MANUFACTURER: Bell Helicopter Textron, Inc.
CONTRACT NUMBER: TBD
TEE STATUS: NA

TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(UH-1N)	1	Sep 94	Sep 94	Onboard	UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor C-600-9363 (Track M-602-2081) C-601-9351 (Track M-601-2014) C-602-9360 (Track M-102-2024) C-646-3341 (Track M-646-2044)
(UH-1Y)	1	Mar 06	TBD	Pending	UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor C-600-9363 (Track M-602-2081) C-601-9351 (Track M-601-2014) C-602-9360 (Track M-102-2024) C-646-3341 (Track M-646-2044) C-601-3137 (Track M-601-3027) C-601-9361 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044) C-646-3341 (Track M-646-2044)

IV.A.2. TRAINING DEVICES

DEVICE: AH-1Z/UH-1Y Modified Composite Maintenance Trainer (MCMT)
DESCRIPTION: This device consists of a full-sized AH-1W Helicopter with stubbed rotor blades and the systems from a UH-1N Avionics Trainer (AVT) as a trainee station, an IOS containing a host computer, individual power supplies, and associated peripherals. Although this suite is one device, it is considered a full UH-1Y CMT and a half AH-1Z CMT. The MCMT provides system maintenance training for structure, power plants, power trains, hydraulics, and flight control systems for both AH-1Z and UH-1Y Helicopters. Computerized fault insertion and the safety features of the MCMT allow realistic training in a controlled and safe environment.

MANUFACTURER: Bell Helicopter Textron, Inc.
CONTRACT NUMBER: TBD (Modifications)
TEE STATUS: TBD

TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(AH-1Z)	1	Mar 03	TBD	Pending	C-102-9354 (Track M-102-2024) C-198-9351 (Track M-102-2024) C-104-3351 (Track M-102-2024) C-601-9351 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044)
(UH-1Y)	1	Mar 03	TBD	Pending	UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor C-600-9363 (Track M-602-2081) C-601-9351 (Track M-601-2014) C-602-9360 (Track M-102-2024) C-646-3341 (Track M-646-2044) C-601-3137 (Track M-601-3027) C-601-9361 (Track M-601-2014) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044)

IV.A.2. TRAINING DEVICES

DEVICE: 222101, AH 1W Engine Remove/Replace Trainer
DESCRIPTION: This device consists of a skeleton AH-1W Aircraft as a trainee station that facilitates the removal and replacement of AH-1W engine, powertrain, combining gearboxes, transmission, main-rotor mast, tail-rotor driveshaft, and tail-rotor systems maintenance. At the current time there are no plans to modify the AH-1W ERRT to the AH-1Z configuration. AH-1Z and UH-1Y CMTs and MCMTs will be utilized for training. The AH-1W ERRT will continue to support AH-1W (two-bladed rotor system) training as long as required and will be disposed of when AH-1W requirements are complete.

MANUFACTURER: Mainflight Simulator, Inc.
CONTRACT NUMBER: NA
TEE STATUS: NA

TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC : MCAS Camp Pendleton, 55176

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Feb 95	Nov 95	Onboard	C-601-3137 (Track M-601-3027) C-601-9361 (Track M-601-2014) C-600-9363 (Track M-602-2081) C-602-3342 (Track M-602-5811)

DEVICE: 142401, UH-1N Avionics Trainer
DESCRIPTION: This device consists of a complete, full-sized UH-1N Helicopter with stubbed rotor blades as a trainee station, an IOS containing a host computer, a power supply, and associated peripherals. The AVT provides avionics maintenance training for intercommunication, control display navigation, cockpit control, aircraft survivability, and aircraft identification systems. At the current time there are no plans to modify the AVT to the UH-1Y configuration. The UH-1Y CMT and MCMT will be utilized for training. The AVT will continue to support UH-1N (two-bladed rotor system) training as long as required and will be disposed of when UH-1N requirements are complete.

MANUFACTURER: E-Systems, Inc.
CONTRACT NUMBER: TBD
TEE STATUS: NA

TRAINING ACTIVITY: HMT-303 FREST
LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(UH-1N)	1	Jan 98	Jan 98	Pending	UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor C-600-9363 (Track M-602-2081) C-102-9354 (Track M-102-2024) C-602-9360 (Track M-102-2024) C-602-3358 (Track M-602-5811)

IV.A.2. TRAINING DEVICES

DEVICE: 142301, UH-1N Electrical/Armament Trainer

DESCRIPTION: This device consists of a full-sized skeleton UH-1N Helicopter without tailboom, power plant, or power train as a trainee station, an IOS containing a host computer, a power supply, and associated peripherals. The EAT is equipped with all electrical systems and defense armament systems. The EAT provides maintenance training for COMM/NAV systems, instrument/automatic flight control systems, and armament systems. The safety features of the EAT allow realistic training in a controlled and safe environment. At the current time there are no plans to modify the EAT to the UH-1Y configuration. The UH-1Y CMT and MCMT will be utilized for training. The EAT will continue to support UH-1N (two-bladed rotor system) training as long as required and will be disposed of when UH-1N requirements are complete.

MANUFACTURER: Bell Helicopter Textron, Inc.

CONTRACT NUMBER: TBD (Modifications)

TEE STATUS: NA

TRAINING ACTIVITY: HMT-303 FREST

LOCATION, UIC : MCAS Camp Pendleton, 55176

	QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
(UH-1N)	1	Feb 95	Feb 95	Onboard	UH-1 Basic and Transition Crew Chief (Cat I and II) UH-1 Conversion Crew Chief UH-1 Crew Chief Instructor C-602-9360 (Track M-102-2024) C-602-3342 (Track M-602-5811) C-602-3358 (Track M-602-5811) C-646-3846 (Track M-602-5811) C-646-3362 (Track M-602-5811) C-646-3363 (Track M-646-2044) C-646-3341 (Track M-646-2044)

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE BEGIN
AH-1Z and UH-1Y Pilot Training	NRWATS Patuxent River, Maryland, 39784	8	11.6	May 03
H-1 Airframes Hydraulic Systems Integrated Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	2.8	May 03
H-1 Airframes Systems Integrated Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	2.8	May 03
H-1 Armament Systems Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	2	May 03
H-1 Communication/Navigation Identification and Related Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	3.6	May 03
H-1 Electrical and Automatic Flight Control Systems Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	5.2	May 03
H-1 Fire Control Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	3.6	May 03
H-1 Power Trains, Rotors and Related Systems Integrated Organizational Maintenance	NRWATS Patuxent River, Maryland, 39784	8	8.8	May 03

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

Note: Curricula Materials and Training Aids for AH-1Z and UH-1Y has not been established at this time. Updates to this NTSP will include the new Curricula Materials and Training Aids requirements for each applicable course.

IV.B.3. TECHNICAL MANUALS

Note: Technical Manuals for AH-1Z and UH-1Y are being developed by BHTI. The following is a list of the proposed manuals:

Reference Manuals AH-1Z Aircraft

NA01-H1AAD-1	NATOPS Flight Manual
NA01-H1AAD-1B	NATOPS Pilot Pocket Checklist
NA01-H1AAD-1F	NATOPS Functional Checkflight List
NA01-H1AAD-2-1	Helicopter General Information
NA01-H1AAD-2-2	Airframe and Landing Gear
NA01-H1AAD-2-3.1	Power Plant and Related Systems - Principles of Operation
NA01-H1AAD-2-3.2	Power Plant and Related Systems - Testing and Troubleshooting
NA01-H1AAD-2-3.3	Power Plant and Related Systems - Maintenance Procedures
NA01-H1AAD-2-4	Drive System
NA01-H1AAD-2-5	Flight Control Systems
NA01-H1AAD-2-6	Main Rotor System
NA01-H1AAD-2-7	Tail Rotor System
NA01-H1AAD-2-8	Hydraulic Systems
NA01-H1AAD-2-9	Utility Systems
NA01-H1AAD-2-10.1	Instrument Systems - Principles of Operation
NA01-H1AAD-2-10.2	Instrument Systems - Testing and Troubleshooting
NA01-H1AAD-2-10.3	Instrument Systems - Maintenance Procedures
NA01-H1AAD-2-11.1	Electrical Systems - Principles of Operation
NA01-H1AAD-2-11.2.1	Electrical Systems - Testing and Troubleshooting
NA01-H1AAD-2-11.2.2	Electrical Systems - Testing and Troubleshooting
NA01-H1AAD-2-11.2.3	Electrical Systems - Testing and Troubleshooting
NA01-H1AAD-2-11.3	Electrical Systems - Maintenance Procedures
NA01-H1AAD-2-12.1	Armament Systems - Principles of Operation
NA01-H1AAD-2-12.2.1	Armament Systems - Testing and Troubleshooting
NA01-H1AAD-2-12.2.2	Armament Systems - Testing and Troubleshooting
NA01-H1AAD-2-12.2.3	Armament Systems - Testing and Troubleshooting
NA01-H1AAD-2-12.2.4	Armament Systems - Testing and Troubleshooting
NA01-H1AAD-2-12.3	Armament Systems - Maintenance Procedures
NA01-H1AAD-2-13	Stability Control Augmentation System
NA01-H1AAD-2-14.1	Avionics Systems - Principles of Operation
NA01-H1AAD-2-14.2	Avionics Systems - Testing and Troubleshooting
NA01-H1AAD-2-14.3	Avionics Systems - Maintenance Procedures
NA01-H1AAD-2-15.1	AH-1Z Wiring Lists
NA01-H1AAD-2-15.2	AH-1Z Wiring Lists
NA01-H1AAD-2-15.3	AH-1Z Wiring Lists
NA01-H1AAD-2-16	Conditional Inspection Requirements
NA01-H1AAD-4	Illustrated Parts Breakdown
NA01-H1AAD-6	Periodic Maintenance Information Cards
NA01-H1AAD-6.1	Turnaround Checklist
NA01-H1AAD-6.2	Daily Maintenance Requirements Cards
NA01-H1AAD-6.3	Servicing/Special/Preservation Maintenance Requirements Cards
NA01-H1AAD-6.4	Phased Maintenance Requirements Cards

IV.B.3. TECHNICAL MANUALS

Reference Manuals UH-1Y Aircraft

NA01-110HCG-1	NATOPS Flight Manual
NA01-110HCG-1B	NATOPS Pilot Pocket Checklist
NA01-110HCG-1C	NATOPS Crewmember Checklist
NA01-110HCG-1F	NATOPS Functional Checkflight List
NA01-110HCG-2-1	Helicopter General Information
NA01-110HCG-2-2	Airframe and Landing Gear
NA01-110HCG-2-3.1	Power Plant and Related Systems - Principles of Operation
NA01-110HCG-2-3.2	Power Plant and Related Systems - Testing and Troubleshooting
NA01-110HCG-2-3.3	Power Plant and Related Systems - Maintenance Procedures
NA01-110HCG-2-4	Drive System
NA01-110HCG-2-5	Flight Control Systems
NA01-110HCG-2-6	Main Rotor System
NA01-110HCG-2-7	Tail Rotor System
NA01-110HCG-2-8	Hydraulic Systems
NA01-110HCG-2-9	Utility Systems
NA01-110HCG-2-10.1	Instrument Systems - Principles of Operation
NA01-110HCG-2-10.2	Instrument Systems - Testing and Troubleshooting
NA01-110HCG-2-10.3	Instrument Systems - Maintenance Procedures
NA01-110HCG-2-11.1	Electrical Systems - Principles of Operation
NA01-110HCG-2-11.2.1	Electrical Systems - Testing and Troubleshooting
NA01-110HCG-2-11.2.2	Electrical Systems - Testing and Troubleshooting
NA01-110HCG-2-11.2.3	Electrical Systems - Testing and Troubleshooting
NA01-110HCG-2-11.3	Electrical Systems - Maintenance Procedures
NA01-110HCG-2-12.1	Armament Systems - Principles of Operation
NA01-110HCG-2-12.2.1	Armament Systems - Testing and Troubleshooting
NA01-110HCG-2-12.2.2	Armament Systems - Testing and Troubleshooting
NA01-110HCG-2-12.2.3	Armament Systems - Testing and Troubleshooting
NA01-110HCG-2-12.2.4	Armament Systems - Testing and Troubleshooting
NA01-110HCG-2-12.3	Armament Systems - Maintenance Procedures
NA01-110HCG-2-13	Stability Control Augmentation System
NA01-110HCG-2-14.1	Avionics Systems - Principles of Operation
NA01-110HCG-2-14.2	Avionics Systems - Testing and Troubleshooting
NA01-110HCG-2-14.3	Avionics Systems - Maintenance Procedures
NA01-110HCG-2-15.1	UH-1Y Wiring Lists
NA01-110HCG-2-15.2	UH-1Y Wiring Lists
NA01-110HCG-2-15.3	UH-1Y Wiring Lists
NA01-110HCG-2-16	Conditional Inspection Requirements
NA01-110HCG-4	Illustrated Parts Breakdown
NA01-110HCG-6	Periodic Maintenance Information Cards
NA01-110HCG-6.1	Turnaround Checklist
NA01-110HCG-6.2	Daily Maintenance Requirements Cards
NA01-110HCG-6.3	Servicing/Special/Preservation Maintenance Requirements Cards
NA01-110HCG-6.4	Phased Maintenance Requirements Cards

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Conducted Analysis of MPT Requirements	Dec 95	Completed
PDA	Awarded AH-1Z and UH-1Y EMD Contract	FY97	Completed
TSA	Distributed Updated H-1 Upgrades NTSP for Review	Jun 01	Completed
OPTEVFOR	Begin Bell and Rotorwing AH-1Z and UH-1Y IT&E and EMD Testing	FY01	In Progress
TSA	Developed Proposed H-1 Upgrades NTSP	Oct 01	Completed
OPTEVFOR	Begin AH-1Z and UH-1Y OPEVAL	FY03	Pending
TSA	Begin AH-1Z and UH-1Y Initial Training	FY03	Pending
TSA	Deliver AH-1Z and UH-1Y Curricula Materials	FY03	Pending
PDA	Deliver AH-1Z and UH-1Y to Fleet	FY05	Pending
TSA	Begin AH-1Z and UH-1Y Follow-On Training	FY05	Pending
TSA	Deliver AH-1Z and UH-1Y Training Devices	FY04	Pending
PDA	Achieve AH-1Z and UH-1Y MSD	FY08	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
None			

PART VII - POINTS OF CONTACT

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SUMMARY OF COMMENTS

ON THE

H-1 UPGRADES PROGRAM (AH-1Z AND UH-1Y)

DRAFT NAVY TRAINING SYSTEM PLAN

OF AUGUST 2001

N88-NTSP-A-50-9602A/D

Prepared by: ATCS Dave Morris, AIR 3.4.1
Contact at: (301) 757-3093
Date submitted: 1 October 2001

COMMENTS / RECOMMENDATIONS ON THE
H-I UPGRADES PROGRAM (AH-1Z AND UH-1Y)
DRAFT NAVY TRAINING SYSTEM PLAN

TABLE OF CONTENTS

COMMENTS / RECOMMENDATIONS ON THE
H-I UPGRADES PROGRAM (AH-1Z AND UH-1Y)
DRAFT NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Deputy Program Manager Logistics, PMA272 (3.1)

COMMENT: Page I-57, paragraph J.4

During the review of the NTSP, there was not a direct reference to the AN/ALE-47 system training, manuals, or support equipment. However, there were frequent references to difference training of the UH-1N/AH-1W and UH-1Y/AH-1Z organizational curriculum, which includes the AN/ALE-47: Pages, I-20, I-21, I-25, I-43, II-6. The H-1 Upgrades Program NTSP concurs with the AN/ALE-47 Countermeasures Dispensing System NTSP, identifying which training tracks will be updated for the UH-1Y/AH-1Z organizational curriculum. The UH-1Y/AH-1Z aircrew training will be implemented in FY03 and organizational maintenance will be totally implemented FY07. There is not any mention of the AN/ALE-47 manuals or GPTE within the H-1 Upgrades Program NTSP. The justification used in the H-1 Upgrades Program NTSP is that the training pipelines, manuals and SE will be updated by replacing and modifying existing courseware. The UH-1Y/AH-1Z training will not affect billeting, facilities, or manning requirements. In accordance with H-1Upgrades Program NTSP page I-10, there will not be intermediate maintenance training specifically for the AN/ALE-47 System. The intermediate maintenance training for the AN/ALE-47 will be encompassed within the CASS Training Track.

Recommendations:

a. All of the information (proposed training curriculum and tracks, training devices, test equipment, and manuals) by specific systems that are applicable to the H-1 Upgrades should be identified within the H-1 Upgrades Program NTSP as a foundation for the life cycle support of the training. AN/ALE-47 Countermeasures Dispensing System NTSP has all of the information (proposed training curriculum and tracks, training devices, test equipment, and manuals) required for the AN/ALE-47. If or when this information changes then both NTSPs should be updated as they are living documents throughout the training life cycle.

b. I do not believe the information about the H-1 that is not affected by the upgrades should be in the H-1 Upgrades Program NTSP. Information that is applicable to the overall H-1 should be covered within the H-1 NTSP. Merely the statement within each section of the H-1 Upgrades Program NTSP that states, the pipelines and courses will be updated by replacing and modifying the existing courseware with AH-1Z and UH-1Y curriculums, is inadequate without identifying which specific courses will be affected by which systems.

c. AN/ALE-47 Countermeasures Dispensing System NTSP should be identified in the H-1 Upgrades Program NTSP paragraph M, page I-61, Related NTSPs and other applicable documents.

INCORPORATED: NO to a. and b., YES to c.

REMARKS: The H-1 Upgrades Program (AH-1Z and UH-1Y) NTSP is primarily for the Weapon Platforms AH-1Z and UH-1Y upgrades and not specific onboard systems. However, all systems are included in the NTSP in regards to function, maintenance, and training. Legacy systems already have established NTSPs for detailed descriptions, life cycle usage, modifications, and new developments. These NTSPs are/should be included in the 'Related NTSPs and other Applicable Documents' section. Updating related NTSPs simultaneously is not feasible as each one may have be sponsored by different Program Managers, and it is their responsibility to ensure these documents are funded and updated accordingly. NTSPs are on an 18-month update schedule; however, NTSPs may not be updated on schedule due to funding constraints.

This NTSP is for the overall Weapon Platforms AH-1Z and UH-1Y, a separate NTSP for the AH-1W and the HH-1/UH-1N are already established, with updates pending approval. The statement 'pipelines and courses will be updated……' is correct because all systems are affected, along with training devices, test equipment, and manuals. The Assistant Program Manager for Training Systems (PMA205-2C) does not want speculation included into this NTSP regarding training, etc., since BHTI is currently under contract to develop the necessary information. Proposed information for training curriculum and tracks, training devices, test equipment, and manuals is and will be included in the NTSP when available and approved for release from PMA205.

COMMENTS / RECOMMENDATIONS ON THE
H-I UPGRADES PROGRAM (AH-1Z AND UH-1Y)
DRAFT NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: Support Equipment Project Officer (NAWCAD 1.1X.7.3L)

COMMENT: Page I-57 paragraph J.4 and page IV-2

"Test Sets, Tools, and Test Equipment": States that BHTI generated the list. Who at BHTI generated the list? Who at PMA276 is reviewing the BHTI list for approval?

"TTE/GPET/SPTE/ST/GPETE": The chart included shows the current AH-1W and UH-1N requirements. Who is working the "requirements" for the Y and Z? What is the process to determine the list? Is the update being worked by BHTI? Is it a function of the LSA process? Who approves the list?

INCORPORATED: YES

REMARKS: BHTI is generating the list through the LSAR process and SEIPT is the reviewing/approval authority.

COMMENT: Page IV-2, element IV.A.1

"TTE/GPET/SPTE/ST/GPETE": The chart included shows the current AH-1W and UH-1N requirements. Who is working the "requirements" for the Y and Z? What is the process to determine the list? Is the update being worked by BHTI? Is it a function of the LSA process? Who approves the list?

INCORPORATED: YES

REMARKS: Requirements for the AH-1Z and UH-1Y are being generated through the LSAR process.

COMMENTS / RECOMMENDATIONS ON THE
H-I UPGRADES PROGRAM (AH-1Z AND UH-1Y)
DRAFT NAVY TRAINING SYSTEM PLAN

ACTIVITY NAME: HMT-303 Aviation Ground Training OIC

COMMENT: Page I-29

The AH-1 Fleet Replacement Basic and Transition Pilot Category I and II Pipeline lists the length of the course as 365 days. That's not close. However, the description of the course includes Combat Capable, Combat Ready, and Full-Combat Qualification Training. The FRS curriculum only includes Combat Capable with the other qualifications at the hands of their fleet squadron. Similarly, and for the same reasons all aircrew courses are listed the same way.

INCORPORATED: YES

REMARKS: Removed all tactical squadron training from all aircrew courses and recalculated student throughputs accordingly.